Topping out at new White City Campus hub

Imperial marked the completion of structural building work for its Molecular Science Research Hub and the Translation & Innovation Hub on 28 January.

The two interconnected hubs form one of the first major parts of the innovation ecosystem for the College’s new White City Campus. The Translation & Innovation Hub will house co-located laboratories with major corporate partners and new technology start-ups. Scheduled to open in summer 2016, it forms part of a larger innovation ecosystem, managed by Imperial College ThinkSpace.

Due for completion in 2017, the Molecular Science Research Hub will be a state-of-the-art science building housing research from Imperial’s Department of Chemistry to seed a new molecular sciences neighbourhood, connecting with work in synthetic biology, data sciences, digital and health.

Imperial has partnered with investment firm Voreda to build the Hub, in collaboration with construction experts Laing O’Rourke.

Dr Eulian Roberts, Chief Executive of Imperial College ThinkSpace, said: “This is a significant milestone in our ambitious vision for Imperial’s White City Campus. The Translation & Innovation Hub will provide us with the environment to drive innovation and growth on an unprecedented scale. I look forward to welcoming colleagues and partners to the facility.”

—DEBORAH EVANSON, COMMUNICATIONS AND PUBLIC AFFAIRS

Miscarriage research centre will help thousands of families

The UK’s first national clinical research centre dedicated to early miscarriage is to open at Imperial.

The National Early Miscarriage Centre, which will be funded by Tommy’s – the UK baby charity that funds research into miscarriage, stillbirth and premature birth – will comprise a partnership between Imperial, the University of Birmingham and the University of Warwick.

The three sites will run specialist clinics enabling 24,000 women per year to access treatment and support and participate in Tommy’s research studies. At Imperial, the centre will be based clinically at the Early Pregnancy Unit at Queen Charlotte’s and Chelsea Hospital and the Recurrent Miscarriage Clinic at St Mary’s Hospital.

While miscarriage is by far the biggest cause of pregnancy loss in the UK, it’s also the least understood. Tommy’s aims to halve the number of miscarriages by 2030 by funding medical research into the cause and effect of miscarriage.

—KATE WIGHTON, COMMUNICATIONS AND PUBLIC AFFAIRS

What does it mean to be creative? In days gone by it seemed rather simple – there were poets, artists and the like on one side and industrialists and more serious types on the other. This is to a certain extent reflected in our education system right through to university, with Bachelors in Arts and Science degrees. But it’s becoming increasingly clear that such a stark divide no longer holds water – if it ever really did. Here at Imperial – a bastion of scientific and technical excellence – there is a wellspring of overtly creative activity, including student and staff fiction writing (centre pages), fine art (page 13) and computer application designing (page 13). Yet, these are just the most obvious examples. Even the most technically involved areas of research require original thinking and bold new ideas. In the support services too it requires creativity to overcome the obstacles of working in an institution with finite space, resources and finance, as manager Clive Hargreaves explains (page 11). Hopefully this issue might help inspire your own creative side.

—ANDREW CZYZEWSKI, EDITOR

Outside the box

Imperial’s White City Campus takes shape
Future materials take centre stage at Davos

The role of materials science in driving the ‘fourth industrial revolution’ was showcased by a group of Imperial academics at the World Economic Forum in Davos last month.

Imperial’s IdeasLab presentations at the World Economic Forum showed the gathering of global government, industry and NGO leaders how advances in materials science are transforming industries from energy-efficient production and rapid prototyping to nanorobotics and invisibility cloaks.

Imperial’s President Professor Alice Gast published a blog with the World Economic Forum about how fundamental research is at the heart of the fourth industrial revolution – the set of technological changes that will enable almost anyone to invent new products and services quickly and cheaply.

“Universities provide the crucible for completely new areas of science and technology to emerge, like biomedical engineering, data science and synthetic biology; and the business opportunities will follow,” President Gast said.

During the Davos events, Professors Mary Ryan, Natalie Stingelin, Neil Alford and Robin Grimes also presented their respective work about heat capture technology to emerge, like biomedical engineering, data science and synthetic biology, and the business opportunities will follow,” President Gast said.

During the Davos events, Professors Mary Ryan, Natalie Stingelin, Neil Alford and Robin Grimes also presented their respective work about heat capture technologies, polymers that can manipulate light, maser technology and computer simulations of novel materials.

Beyond the materials science sessions, Professor Maja Pantic presented in an IdeasLab panel on ‘building an intelligent machine’, covering machines that can read human emotions and the rise of social machines.

Gareth Mitchell, lecturer in broadcast communication at Imperial, moderated the panel on ‘the promise and peril of omnipresent sensors’, and the ‘violent universe’ of black holes and supernovae.

—ANDREW SCHEUBER, COMMUNICATIONS AND PUBLIC AFFAIRS

Top signing
One of the world’s most distinguished computer scientists, Professor Nick Jennings, is to become Vice Provost (Research) at Imperial from April 2016. Professor Jennings is currently Regius Professor of Computer Science at the University of Southampton. Professor Jennings also served as the government’s inaugural Chief Scientific Adviser for National Security from 2010 to 2015, providing independent scientific advice on issues of national security.

Apollo fund to propel innovation
Pharmaceutical companies and university technology transfer offices have pledged £40m to establish the Apollo Therapeutics Fund, which aims to drive forward therapeutic innovation for a wide range of diseases. The consortium behind the Fund consists of AstraZeneca, GlaxoSmithKline, Johnson & Johnson and Imperial Innovations, Cambridge Enterprise and UCL Business. The Fund is open to applications from academics based in the three universities behind the participating technology transfer offices.

“…”It’s the joy and excitement of science; if one is lucky and able to continue with interesting and important research that’s a disincentive to giving up.”

PROFESSOR COLIN CARO SHARES HIS SECRET TO ACADEMIC LONGEVITY AS HE MARKS HIS 90TH BIRTHDAY AND 50 YEARS AT IMPERIAL. WATCH A VIDEO INTERVIEW HERE: bit.ly/colin-caro

Making our digital world safer from cyber attacks

Testing the resilience of the UK’s infrastructure from cyber-attacks and sharing data safely is the focus of two new Imperial projects.

Two research teams from the College with collaborators in Singapore, have received funding from the Engineering and Physical Sciences Research Council and the National Research Foundation, Singapore. As the digital world becomes more connected and ubiquitous, these three-year long projects will help to ensure that cyber security develops in step with changes in technology and with emerging threats.

One project will focus on developing safer methods for sharing confidential digital information, which do not compromise the privacy rights of citizens and organisations. It will be led by Professor Michael Huth (Computing), Associate Professor Wolfram Wiesemann (Business School) and Assistant Professor Xu Huan from the National University of Singapore.

The second team will investigate new approaches for making infrastructure, such as the electricity grid and water utilities, more secure from evolving cyber threats. The team will be led by Dr Deeph Chana, Deputy Director of Imperial’s Institute for Security Science and Technology, and Professor Aditya Mathur from Singapore University of Technology and Design.

“It isn’t possible to test high impact risks in the real world, such as getting a hacker to break into the electricity grid, because the ramifications are too serious,” said Dr Chana. “We are building model systems that will enable rapid, repeated simulations that represent realistic breaches in cyber security.”

—COLIN SMITH, COMMUNICATIONS AND PUBLIC AFFAIRS
Trans issues centre stage at LGBT History Month

Imperial marked LGBT History Month on 9 February with a thought-provoking lecture from Anjeli Patel, who discussed her own journey as a trans woman.

Anjeli shared her experiences of growing up and transitioning in the British Asian community, and the challenges she faced in education and employment. She also discussed changes in legislation and the importance of supportive policies from employers.

“LGBT history month is vital for two reasons,” says Anjeli. “Firstly to showcase how far we have come as a community, and secondly to highlight how far we still have to go”.

Alongside her current job in Wealth & Asset Management at Ernst & Young, Anjeli is a member of trans*formation, a group for professionals who identify as trans and their friends and supporters. The group was founded recently, and aims to connect and inspire trans professionals, alongside working to achieve real change in the workplace.

“To me it’s a matter of equality,” said Anjeli. “Employers should look at a person for what they have to offer the organisation, rather than their personal history or background.”

Leyla Okhai, Head of the Equality, Diversity and Inclusion Centre at Imperial, said: “We were delighted to have Anjeli come and speak about her experiences and contribute to the work we are doing on trans awareness in the College. The lecture has drawn a lot of interest and having an insight into Anjeli’s experience as a British Asian will help us to understand how transitioning is a different journey for everyone.”

---ELIZABETH NIXON, COMMUNICATION AND PUBLIC AFFAIRS

National Student Survey 2016 launches at Imperial

Imperial’s final year undergraduates are invited to share their views, as the National Student Survey 2016 gets underway.

Final year undergraduates are asked to rate their experience at Imperial, giving scores on areas such as academic support, learning resources and assessment and feedback. This year’s survey is now open and closes on 30 April.

Professor Sue Gibson, the College’s Acting Vice-Provost (Education), said: “The NSS is an important opportunity for final year students to reflect on their experience during their time at Imperial and share their views and ideas in order to contribute to positive change in years to come.”

The results of the survey, which are published later in the year, help inform key education-focused developments. Each department creates an action plan aimed at enhancing areas such as teaching and student support as part of the College’s strategic commitment to enriching the student experience.

---JON NARCROSS, COMMUNICATIONS AND PUBLIC AFFAIRS

WISE move: how gender diversity drives innovation

Industry experts joined Imperial staff at a panel discussion focusing on gender diversity and its potential to drive innovation.

The discussion was the first knowledge sharing event hosted by a university for the WISE campaign, which promotes women in science, engineering and technology. Chairing the discussion was the Provost’s Envoy for Gender Equality at Imperial, Professor Dorothy Griffiths, who guided the panellists through an exploration of how gender affects innovation and entrepreneurship.

The panel included Imperial entrepreneurs and recent PhD students Dr Kerry O’Donnelly and Dr Angela de Manzanos, alongside Professor Charlotte Williams from Imperial’s Department of Chemistry. They were joined by Dr Kate Ronayne, Head of Innovation at the Science and Technology Facilities Council (STFC), and Toby Mildon, Head of Diversity and Inclusion for BBC Digital.

The three Imperial panel members have successfully founded their own businesses. Dr O’Donnelly and Dr de Manzanos co-founded FungiAlert while Professor Williams is the founder of Econic Technologies – an achievement for which she won the 2015 WISE award. The WISE move: how gender diversity drives innovation

Inclusion for BBC Digital.

The three panel members spoke about the challenges they have faced as women in the tech start-up space, but explained how opportunities to enter competitions, alongside support from peers, colleagues and family had helped them. They also emphasised the importance of creating a culture of equal opportunity in which diversity could be encouraged and differences communicated.

---ROBYN LOWE, ELIZABETH NIXON, COMMUNICATIONS AND PUBLIC AFFAIRS

As an institutional member of WISE, Imperial can offer individual staff and students a number of benefits including priority invitations to events, networking opportunities, and access to training. For further information, visit: wisecampaign.org.uk/membership
Does everyone have an app inside them?

**FINANCIAL TIMES**  •  31.01.2016

FT journalist Jonathan Margolis spoke with Professor Mike Wright, Head of Innovation and Entrepreneurship at Imperial College Business School, about predictors of innovation success. “People get obsessed with financing,” says Mike. “We’re awash with crowdfunding. But having the entrepreneurial skills to match that with potential markets is often missing.” He is also sceptical of the ultimate buzz concept: disruption. Not everything, he points out, that’s going to be successful needs to be disruptive. “A lot of process or efficiency innovations are equally valid. A modest innovation that works nationally rather than globally can be very successful.”

LSD may improve psychological wellbeing

**THE TELEGRAPH**  •  08.02.2016

LSD can make you more optimistic and more open to experience, according to a new study by researchers at Imperial reported in The Telegraph. Volunteers were each given a 75 microgram dose of LSD or a placebo and subjected to a number of repeated tests.

Researchers said their findings reinforced the view that psychedelic drugs bring on psychosis-like symptoms — yet improve psychological wellbeing in the mid to long term. “Increased optimism and trait openness were observed two weeks after LSD (and not placebo) and there were no changes in delusional thinking,” said study lead Dr Robert Carhart-Harris (Medicine).

Banks complacent on digital currency

**CITY AM**  •  25.01.2016

Writing in City AM, Imperial College Business School Dean Professor G Anandalingam says the financial services industry is dangerously complacent in its approach to digital money. “Some of the major banks almost look like they fear technological change that promises greater transparency, efficiency and security at a lower cost. Cryptocurrencies like bitcoin cannot be dismissed as the preserve of those engaged in suspicious transactions on the dark web. At Imperial College Business School, digital money has become the new normal. Our students are fintech-savvy. Many take classes on digital money and experiment with blockchain. Our graduates are helping to build digital money startups like mobile payment firm Yoyo.”

Imperial has been recognised in the annual Bett Awards (British Educational Training and Technology) for its primary science CPD resources developed in partnership with digital education company Twig World Ltd. Known as ‘Reach Out CPD’, the web-based programme provides teachers with continuing professional development (CPD) resources and ideas to support their teaching. Since its launch in October 2014, more than 7,000 teachers have signed up for Reach Out CPD, which is currently being used in more than 4,000 schools.

An Imperial expert in joint mechanics and the effects of blast injuries has been recognised for his achievements by a prestigious US institution. Professor Anthony Bull, Head of the Department of Bioengineering, was elected to the American Institute for Medical and Biological Engineering (AIMBE) for outstanding contributions to the “basic mechanics of joints and tissues, and the study of military blast injuries”.

An Imperial researcher who helped to stabilise the Leaning Tower of Pisa has been elected to the US National Academy of Engineering. Emeritus Professor John Burland (Civil and Environmental Engineering) has been elected as a Foreign Member. Professor Burland was only one of 22 Foreign Members and the only UK engineer to be elected this year. His research focuses on engineering challenges related to the interaction between the ground and structures made of masonry. He is responsible for the design of many large engineering projects.
World’s largest canyon could be hidden under Antarctic ice sheet

The world’s largest canyon may lie beneath the Antarctic ice sheet, according to an analysis of new satellite data.

The previously unknown canyon is thought to be over 1,000 km long and in places as much as a kilometre deep, which would make it comparable in depth to the Grand Canyon in United States, but many times longer.

Professor Martin Siegert, from the Grantham Institute, who co-authored the research, said: “We are filling gaps in our knowledge and in maps of the last and least explored landmass on our planet.

“There are places in Antarctica where you can stand on the ice and be more than 200 km away from any point of data about the land underneath – we know more about the surface of the Moon, Mars, and even now Pluto.”

The canyon system is believed to be made up of a chain of winding and linear features buried under several kilometres of ice in one of the last unexplored regions of the Earth’s land surface: Princess Elizabeth Land (PEL) in East Antarctica.

The researchers believe that the landscape beneath the ice sheet has probably been carved out by water. They say it is either so ancient that it existed before the Antarctic ice sheet covered the area, or it was created by water flowing and eroding the rocks beneath the ice.

Faint traces of the canyons were observed in satellite images, and small sections of the canyons were then found using radio-echo sounding data, whereby radio waves are sent through the ice to map the shape of the rock beneath it.

An airborne survey taking measurements over the whole buried landscape is now underway, aiming to confirm the existence and size of the canyon and lake system, with results due later in 2016.

The research team was made up of scientists from Newcastle University, Imperial and Durham University in the UK, University of Texas at Austin, USA, University of Western Australia, Australian Antarctic Division, University of Tasmania in Australia, and the Polar Research Institute of China.

—SIMON LEVEY, THE GRANTHAM INSTITUTE FOR CLIMATE CHANGE

Flu virus hijacking tactics revealed

Scientists at Imperial have discovered how flu viruses ‘hijack’ cell machinery when they infect the body.

The findings may pave the way for more effective antiviral treatments for pandemics and for seasonal flu, which infects over 800 million people worldwide every year.

In the research, the team used hamster-chicken hybrid cells to discover why avian influenza virus (bird flu) cannot usually infect mammal cells.

They found that a particular host protein – called ANP32A – which is also found in human cells, acts as an ‘insider’ and helps the virus replicate once the virus has gained entry into the cell. Bird flu viruses can’t use the mammalian ANP32A unless they carry a particular mutation.

As well as understanding how bird flu viruses can make the jump from birds to humans, scientists can now also explore whether it is possible to develop drugs that target this human protein, to prevent the flu virus replicating.

Professor Wendy Barclay (Medicine) and senior author of the study, explains: “All human flu viruses in the world originally came from birds. However, luckily for us, viruses don’t often jump from birds to people because the virus can’t replicate in our cells. When they do transfer to humans, it’s because the virus mutates in a number of ways. This enables it to gain a foothold inside the cell, and hijack the cell machinery to replicate.”

The next stage is to start investigating treatments that may block this specific interaction between virus and cell, with the hope of stopping the virus in its tracks.

—KATE WIGHTON, COMMUNICATIONS AND PUBLIC AFFAIRS

Princess Elizabeth Land (PEL) in East Antarctica

What does it take to be an Antarctic scientific explorer?

Professor Siegert has more than 20 years of experience in Antarctic science and has visited the continent three times on scientific missions.

“The challenges in doing research in Antarctic are considerable and the problems are obvious: it’s cold and things don’t tend to work. There is no infrastructure and you’ve pretty much got to take everything with you so consequently you have a limited amount of resources. In many ways it is very much like space exploration; it’s very unworldly.

When you’re doing research it’s very important to keep a sense of humour – it would be desperate place without that. I think that the type of people who are attracted to working in Antarctica have that as part of the makeup of their character. They have to be pragmatic but also see the funny side of things and keep cheerful. It is hard, serious work, but there are moments. For example, when you’re doing hot water drilling deep into the ice sheet and you create a tub of hot water at the surface – it’s quite interesting having a bath in that especially when you haven’t washed for three or four weeks. You savour those moments. We have to remember that it’s a privilege and an honour to do this research.”

—HAYLEY DUNNING, COMMUNICATIONS AND PUBLIC AFFAIRS
Scientists have identified a type of immune cell in the lungs of humans that may help fight respiratory syncytial virus (RSV) and suggest nose sprays could be the most efficient way of delivering a vaccine against the virus.

The virus is one of the main causes of childhood hospitalisation, severe lung infection in the elderly, and the common cold.

“We now know it’s the most common cause of hospitalisation of babies – resulting in up to 200,000 baby deaths worldwide every year. And in the older population it’s almost as dangerous as flu,” says Dr Christopher Chiu (National Heart and Lung Institute).

In their latest study Chiu and team infected 49 healthy volunteers with RSV in closely monitored conditions. They kept the participants in hospital for 10 days – studying them before and after infection. Just over half developed an infection – with most of the infected group developing symptoms of a common cold.

The team took small tissue samples from the airways of the volunteers who developed an infection. They found that a type of immune cell, called a resident memory T cell, is particularly active during RSV infection. These immune cells help to identify invaders, raising the alarm to the rest of the body and killing infected cells.

The work also suggests current vaccine efforts should be directed toward nose sprays.

“There are around 50 potential vaccines being investigated at the moment, and a few of these will be delivered in nasal sprays. Our work suggests a nasal vaccine will be more likely to reach these immune cells, which are in the lungs, than injecting a vaccine into the arm. The hope is that within the next five years there will be a vaccine licensed for use to reduce the massive toll of this infection.”

—KATE WIGHTON, COMMUNICATIONS AND PUBLIC AFFAIRS

Lung cells that battle cold virus identified

Clean-up act

The most efficient way to clean up ocean plastics and avoid harming ecosystems is to place plastic collectors near coasts, according to a new study.

Plastic floating in the oceans is a widespread and increasing problem (see box). Plastics including bags, bottle caps and plastic fibres from synthetic clothes wash out into the oceans from urban rivers, sewers and waste deposits.

Larger plastics are broken down into smaller fragments that can persist for hundreds or even thousands of years, and fragments of all sizes are swallowed by animals and enter the food web, disrupting ecosystems.

A new analysis by Dr Erik van Sebille and undergraduate physics student Peter Sherman (both Grantham Institute) used a model of ocean plastic movements to determine the best places to deploy plastic collectors to remove the most amount of microplastics.

The team found that placing collectors near coasts, particularly around China and the Indonesian islands, would remove 31 per cent of microplastics. With all the collectors in open ocean patches, only 17 per cent would be removed.

“It makes sense to remove plastics where they first enter the ocean around dense coastal economic and population centres,” says Dr van Sebille. “It also means you can remove the plastics before they have had a chance to do any harm. Plastics in the patch have travelled a long way and potentially already done a lot of harm.”

Sherman added: “We need to clean up ocean plastics, and ultimately this should be achieved by stopping the source of pollution. However, this will not happen overnight, so a temporary solution is needed, and clean-up projects could be it, if they are done well.”

Peter Sherman conducted the study as a 10-week summer project under the Undergraduate Research Opportunities Programme at Imperial.

—HAYLEY DUNNING, COMMUNICATIONS AND PUBLIC AFFAIRS
Creative legacy

It is 1897, and Herbert George Wells sits quietly over his writing desk, the first draft of *War of the Worlds* spread before him.

As a struggling biology student, who complained of being ‘constantly hungry’ he could not possibly have foreseen how his burgeoning passion for writing would eventually transform his fortunes and indeed give rise to an entirely new genre of literature.

Wells, the ‘father of science fiction,’ of course went on to enjoy a successful writing career, publishing over 50 books and earning four nominations for the Nobel Prize in Literature along the way.

Curiously, Wells’ first published work was in fact a biology textbook in 1893. Shortly after its release, he won a scholarship to study Biology at the Royal College of Science, which ultimately became part of Imperial. Wells later helped to set up the student publication *Science Schools Journal*, which paved the way for *Phoenix* and then *Felix*. He continued his studies at the Royal College until 1887, the same year he finished writing his dystopian *War of the Worlds*.

By fusing his scientific education with his love for writing, Wells created a literary hybrid now widely regarded as one of the greatest science fiction novels of all time.

Wells was a pioneer, and the path he took from science education to literary fiction is still an unusual one. Yet, in this age of increasing interdisciplinary collaboration, the insight that scientists can bring to literature is perhaps starting to be acknowledged more. One indication of this is the introduction of optional humanities modules to traditional STEMM (Science, Technology, Engineering, Mathematics, and Medicine) degrees.

Imperial Horizons is one such programme run by the College’s Centre for Languages, Culture and Communication. It offers students across all years of their degree course the option to study everything from Mandarin for Beginners, through to Cultural Anthropology and Philosophy and Sociology of Art. But perhaps the module Wells would have opted for is Creative Writing – which culminates in students writing a short story and a critical analysis of their own creative and technical progression.

As well as being formally assessed, these short stories can be submitted for an annual College competition – the Sir Arthur Acland Prize. Mathematics MSc student Cassandra Yong won the prize in the 2014/15 academic year – and then went on to submit her short story to a national competition, fittingly named the HG Wells Prize for Creative Writing, picking up the Junior Category Judging Panel Prize.

“I talked to the other shortlist nominees and they were shocked that I was a maths student.”

Cassandra had enjoyed reading and writing since she was young, but had stopped any formal literary study after her GCSEs. “Horizons presented a great opportunity to pick up writing again after a long break. I had no idea if I would be good at it but I thought ‘why not?’ It was something different from maths, which I loved, but I really wanted to go a little more leftfield and out of my comfort zone. The Creative Writing module was fantastic because going into it I had no idea how to write a story and they coached me back into it really quickly; in many ways it reignited my passion.”

Cassandra’s short story *Adrift* gracefully weaves fascinating family history with fictional embellishments, as she unravels the harrowing experiences of her great grandmother Ngow – sold as a child bride aged nine to settle her father’s gambling debts in Malaysia at the turn of the 20th Century (coincidentally around the same time Wells was in his writing prime). It is a wistful story of class, family, loss and love that drags the reader into Ngow’s frightening past. Cassandra built her story upon fractured recollections
she compiled from her grandmother (Ngow’s daughter). “The story couldn’t have happened without her in all honesty; she put hours of her time into recounting Ngow’s history for me.”

It was this painstaking, and emotively charged research that really stood Cassandra apart and caught the judges’ eyes in the HG Wells creative writing prize. The short story competition was founded to celebrate the life and works of HG Wells and encourage creative writing, especially among the young.

“It was slightly surreal having my story get all of the attention it did,” says Cassandra. “I had to read it out to an audience at the Folkestone Book Festival which was rather daunting – I was a maths student more accustomed to sitting in a quiet room hunched over a textbook all day! It was a really intense experience but I’d do it again in a heartbeat.”

The idea of cultivating STEMM students’ educations with formal humanities teaching, as US universities have done for years, is gradually gaining traction in the UK. Imperial’s Horizons courses provide excellent opportunities for students to broaden their education, enhance their skillset and, importantly, bolster that crucial CV.

For Cassandra, now working as an associate at the Boston Consulting Group in London, it was a no-brainer. “Studying maths you don’t write much at all, so being able to write creatively has been extremely useful at work. Communication is so important once you’ve graduated: writing reports, giving presentations, even simple stuff like writing a clear, succinct cover letter or email. The creative writing module taught me all about critical analysis, writing concisely and working with others – these skills have been invaluable since graduating.”

The demand for Imperial Horizons modules is on the rise. Enrolment figures have almost trebled since Horizons’ inception in 2012, with close to 50% of all Imperial undergraduates enrolling this academic year.

Dr Aifric Campbell is a published author and lecturer on the Horizons creative writing modules; she was also Cassandra’s Horizons tutor last year. Dr Campbell has worked with both STEMM and traditional literary students during her time teaching in further education.

“The first thing I noticed when I started teaching here is the outstanding work ethic amongst Imperial students. Their writing is inspired by their own diverse backgrounds which makes the storytelling really fresh and interesting. I’ve been consistently impressed by the quality of student writing. Creative writers study things very closely, observe the world, and explore what angles one can take on those observations. This is not totally dissimilar to what scientists or engineers are trained to do.”

Dr Campbell is particularly keen to challenge the notion, still prevalent across the STEMM sector, that creative writing is a soft option and a distraction from real studies.

“The world is changing, and those in STEMM jobs are engaging with the public and media more and more – it comes with the job now. Being able to do that effectively can get you a long way.”

In a sense, Cassandra’s success brought the HG Wells prize back full circle to Imperial, and could well kickstart a new wave of scientifically-trained literary writers.

“At the very least, I do hope that success stories like Cassandra’s can show that STEMM students are not rigid thinkers and have just as much of a creative spark as anyone else. Either way, the future is certainly bright for the literary world.”

—HARRY PETTIT, FOR COMMUNICATIONS AND PUBLIC AFFAIRS

The HG Wells Prize Anthology, containing Cassandra’s story ‘Adrift’, is available now on Amazon and Kindle. Visit: bit.ly/wells-stories

For more information about Imperial Horizons visit: imperial.ac.uk/horizons

Creative writers study things very closely, and explore what angles one can take on those observations ... not dissimilar to what scientists or engineers are trained to do.”
Cosmos meets culture

Dr Roberto Trotta warps into a new role as Director of the College’s Centre for Languages, Culture and Communication (CLCC).

Statistics and supernovae have long been the main stock-in-trade for distinguished astrophysicist Dr Roberto Trotta. After completing a degree in physics and a PhD in theoretical physics from his native Switzerland, he then moved to the University of Oxford to become the Lockyer Fellow of the Royal Astronomical Society in 2005, before joining Imperial as Lecturer in 2008.

Yet, for this charismatic and effervescent scientist, a strictly traditional academic career was probably never on the cards. Roberto’s passion for public engagement is clear and he sees this work as part and parcel of what it is to be an academic in the modern world. In 2014 he published his award winning book, The Edge of the Sky, which explains the workings of the cosmos using only the most common 1,000 words in the English language.

“I really want to create an environment where we can grow our profile through public engagement.”

For example, by offering more evening classes we can bring more people into the College, showing them the great science and cutting edge research that we do here.”

Among the undergraduate student body, the Centre is perhaps best known for the Imperial Horizons programme, which launched in 2012 and offers students across all years of their degree course the option to study everything from Mandarin for Beginners, through to Cultural Anthropology. Nearly half of all students have enrolled on the programme this academic year.

With his own eclectic range of interests Roberto is a strong advocate of the role of humanities and the benefit they can bring to students at the College.

“I think Horizons provides fantastic intellectual stimulation. The humanities programmes on offer at Imperial help widen our thinking and give us opportunities to think outside the box and beyond the narrow confines of our specialist disciplines.

Indeed Roberto makes a direct pitch to students still considering Horizons.

“You will experience learning in a way that you have never thought was possible – it’s very different to anything else we do at Imperial. You won’t regret it.”

—JON NARCROSS, COMMUNICATIONS AND PUBLIC AFFAIRS

Visit the Centre’s webpage: imperial.ac.uk/clcc
Follow Roberto on Twitter: @CLCCDirector

Quick fire

1// Favourite novel?
Jonathan Franzen’s The Corrections. An incredibly vivid portrait of modernity, and of the complexities of human relationships.

2// Favourite film?
If a series counts, it must be Breaking Bad. Gripping and amazingly shot.

3// Favourite artist?
Ai Weiwei. His recent Royal Academy show was a troubling reflection of our times.
Clive Hargreaves

Clive Hargreaves, Technical Services and Facilities Manager, received the British Empire Medal in the New Year’s Honours for his work supporting research in the Department of Civil Engineering for more than 35 years.

How did your Imperial journey start?
In the early days I was working exclusively on research projects. It was a very exciting time because the Department played a big role in national and global challenges in the field of structural and civil engineering at that time. For example in the early 1970s a number of building and bridges collapsed during construction as a result of failure of their box girders. As a result there was a ban placed on building with box girders until the problem could be resolved. The Department was involved in testing full sized box girders and got extremely good experimental results.

Then you changed direction somewhat?
Yes, I took on the role of Technical Services and Facilities Manager in 1993, which I have performed to this day. I stepped away from doing the research itself and accepted the challenge of trying to make research actually happen – or at least facilitating it and putting in place the infrastructure to enable it. My role entails overseeing our five very unique and diverse laboratories. We have the structures lab with its almost cathedral proportions; the hydrodynamics lab with its wave tanks; the geotechnics lab; environmental lab and intelligent transport lab.

You are known for being unassuming and modest but you must be proud of the Empire Medal?
The Department has always been very good at recognising and rewarding staff achievements and this honour is a good example of that. I wouldn’t have been able to deliver the job without the hard work other people have done – it’s as simple as that.

What next for you?
Well, probably retirement but that’s a bit embarrassing having just been nominated for a medal. There’s a joke going round the Department that they only did this to keep me here.

Five ways to get the most out of your doctor’s appointment

With GPs in the UK spending an average of 8–10 minutes with each patient, it’s important to know how to get the information you need. Here GP Dr Sonia Saxena, from the School of Public Health, suggests how to make the most of your appointment.

Don’t go empty-handed
Before you see your doctor think carefully about what you want to get out of your appointment. Write down the questions that are most important to you.

Be direct
As time is short, be clear about what you want the doctor to do, such as refer you to a specialist or prescribe a different medication. Be assertive if you need to, but always be polite. If your request isn’t possible, ask the doctor to explain why.

Bring a friend
Research suggests patients forget half of what they are told by the doctor when they’re stressed. Take someone you trust with you to remember what is said, or help occupy or entertain your child if needed.

Repeat if necessary
Ask the doctor to repeat and explain anything you don’t understand, such as instructions for taking medication. If you’re not clear – write it down or ask if there is any written information or a website you can refer to. Make sure you are clear on what happens next, and whether you need to make further appointments.

Check your safety net
Make sure to ask about what doctors call ‘safety netting’ – find out what you do if things don’t improve, or get worse – and who you contact. In the UK, GP surgeries always have an emergency out-of-hours contact number, and there will always be someone who can see you.
Imperial Alumnus swoops to World Gliding Gold

Mechanical Engineering graduate Tom Arscott captured the title at the 23rd Junior World Gliding Championship in Australia in December.

Tom, a member of the Imperial College Gliding Club, clinched the title at his first international event representing the UK against 32 other young pilots from 16 countries in the Club Class competition.

The competition, which took place over 10 days in Narromine in New South Wales, saw competitors race daily across courses of 500km with the fastest competitor receiving the most points.

“I was aiming for a top-half finish originally and saw it as good practice for the future,” said Tom, who joined Imperial’s gliding club in 2011.

“I definitely got into the competitive side of gliding as part of the gliding club here and it was only really when I joined that I was able to improve and start flying in competitions.”

Tom’s success in Australia means he will be representing Great Britain in the 2016 Senior World Gliding Championships this August before defending his Junior World Title in Lithuania in 2017.

—JON NARCROSS, COMMUNICATIONS AND PUBLIC AFFAIRS

Student blogger Emma: Visiting CERN

“Two years ago I won an Imperial Essay competition and part of the prize was a trip to CERN. Due to various complications the trip was postponed, but in January it finally happened! I’ve always wanted to go to CERN, ever since I first heard about it, when I was too young to even know what a hadron was.

The trip was even better than I imagined, however, as we were shown round by Imperial’s Professor Sir Jim Virdee who, was one of the founding members of the CMS (Compact Muon Solenoid) detector. He was also incredibly thoughtful, giving us an introductory talk, signing us a picture book of the construction of the detector, introducing us to everyone, and even arranging our own very fancy lunch in the CERN restaurant. He also tipped us off on the possible discovery of a new, never-before-hypothesised particle which may be starting to emerge from the recent high energy runs... something to watch out for!

As I mentioned I am slightly obsessed with CERN, so have seen hundreds of pictures of the detector, but I couldn't imagine the scale of it until I was standing right above it. It is huge and vastly complex. Surrounded by snow-capped mountains and Lake Geneva, the CMS itself is striking and brightly multi-coloured, looking like some impossibly intricate children’s toy.

More from Lorna and our other student bloggers: wwwf.imperial.ac.uk/utils/sites/studentblogs/
New art installation highlights how research is helping cancer care

A new art display showcasing how patients and clinicians work with researchers to improve cancer care has been launched.

The Imperial Butterfly Artwork Installation: Bringing Research to the Clinic is an art installation of 250 ceramic pieces in the waiting area of Clinic 8, an out-patient cancer clinic at Charing Cross Hospital, part of Imperial College Healthcare NHS Trust (see box).

The art installation includes ceramic butterflies and flowers demonstrating how patients receive care while simultaneously giving back to scientific research, which helps researchers and clinicians to find new treatments and therapies.

The installation was created by ceramic artist David Marques who worked with patients to get their views on the best way to showcase their care at the clinic. The butterflies each represent a patient coming to the clinic and the meadow of flowers represents the therapies patients receive during treatment, as well as the people they meet during their care.

Kelly Gleason, Senior Research Nurse at the Cancer Research UK Imperial Centre, said: “Research carried out over the last 10 years has shown that there are health and wellbeing benefits of incorporating art in healthcare settings. Our art installation is a great way of showcasing to our patients how care and research at Imperial are linked and how patients benefit from our approach. The feedback from our patients was vital in shaping our art installation and transforming the waiting area space at Clinic 8. I hope that patients, staff and visitors enjoy the display and are inspired to learn more about our research and care.”

The art installation was commissioned by the Cancer Research UK Imperial Centre and funded by Cancer Research UK. It was launched at a special reception on Thursday 4 February 2016 to coincide with World Cancer Day.

— MAXINE MYERS, COMMUNICATIONS AND PUBLIC AFFAIRS

Meet CHOPCHOP – your digital kitchen assistant

An Imperial student is part of a team that has just launched CHOPCHOP, a new cooking app to help you plan your way to culinary success.

CHOPCHOP lets you select the dishes you want to cook and the number of people you’re serving, and then creates a full plan to make sure your meal is ready with ease.

The brainchild of JinA Bae and Johnson Wang, the idea for the app came during a road trip along the Great Ocean Road in South-East Australia.

“We relied a lot on the GPS on the drive and we got to thinking about applying that same type of dynamic guidance to other areas of life,” JinA said.

The pair took their idea to Google’s Start-up Weekend in 2014 where they met co-founders Sergio Cecarini, George Trevill and Imperial PhD student Max Frenzel.

Max said: “My PhD is in Quantum Information Theory, which is quite an interdisciplinary area of research connecting many different fields in new and creative ways. I really enjoyed applying my mathematical and problem solving skills to a very real problem like cooking.”

As the project developed, the team entered into Imperial Create Lab’s Venture Catalyst Challenge (VCC), a pre-accelerator programme for early stage start-ups.

Max said: “Imperial has some great resources and programmes for start-ups, and my research and experience at Imperial prepared me very well for tackling new problems in all sorts of areas.”

Download CHOPCHOP from the App Store for iOS: bit.ly/chop-app

—JON NARCROSS, COMMUNICATIONS AND PUBLIC AFFAIRS
Larry Hench, Emeritus Professor of Ceramic Materials died peacefully on 16 December 2015, aged 77. His colleague and friend Professor Julian Jones (Materials) pays tribute.

Larry joined Imperial in 1995 from the University of Florida, having made the seminal discovery in 1969 of Bioglass – the first reported synthetic material to form a bond with living tissues.

As Chair in Ceramic Materials at Imperial, Larry set out to uncover the basic cell biology mechanisms that give Bioglass its remarkable properties. He set up the Tissue Engineering and Regenerative Medicine Centre with the late Professor Dame Julia Polak. There they made the fascinating discovery that the unique bone growing properties of the glass were due to the dissolution products of the glass stimulating bone cells at the genetic level. Members of their team went on to make the glass into 3D scaffolds for use in bone regeneration.

To date, Bioglass has been used in more than one million patients worldwide to treat dental and orthopaedic bone defects.

While Larry is best known for Bioglass, he also has carried out research into electroceramics, optics and nuclear waste immobilization amongst other topics – publishing more than 800 papers, 30 books and 32 US patents.

Larry was passionate about continuing education, for example setting up a new Biomedical Engineering programme at the Florida Institute of Technology. He also has published a popular series of children’s books which introduce science to young children in an accessible way.

He was a generous, caring man, very popular in the science and engineering community. As a supervisor, he gave total freedom for his students yet his door was always open.

Larry is survived by his son Alan and companion Margaret as well as step children Martin, Sally and Joanna and 14 grandchildren and 1 great grandchild.
Welcome

new starters

Mr Ayo Adegbiji, Business School
Dr Deborah Atkins, Design Engineering
Miss Lucy Afong, Public Health
Miss Fran Atshum, Registry
Dr Khondaker Akram, NHLI
Professor Pavlos Aleiferis, Mechanical Engineering
Dr Nicolas Allerza, Mechanical Engineering
Dr Khalid Aliai Abadjia, Civil and Environmental Engineering
Miss Emily Amnedro, Public Health
Miss Elizabeth Andrew, Medicine
Miss Natalie Andrews, Life Sciences
Dr Nicholas Applebaum, Surgery & Cancer
Mr Joa Arnau Pela, Physics
Mr Carlton Assie, Business School
Ms Hayley Atkinson, Public Health
Dr Pierre Louis Aublin, Computing
Mr Vitali Avgayan, Business School
Miss Vanessa Babie, Centre for Environmental Policy
Mr Michael Back, Chemistry
Miss Rachael Barry, Life Sciences
Dr Deren Barsakcioglu, EEE
Dr Ana Batista Gomes, Life Sciences
Mrs Joanna Bednarska, Medicine
Mr Trevor Beek, Physics
Ms Janette Beetham, HR
Mr Trevor Beek, Physics
Miss Margaret Bennett, Surgery & Cancer
Mr Terry Bishop, Estates Division, Civil and Environmental Engineering
Dr Ver Bilano, Public Health
Gail Blayney, Medicine
Mr Lauren Bourke, Medicine
Miss Sophie Bozorgi, Mechanical Engineering
Dr Laura Bridgegman, School of Professional Development
Mr Stefanis Brison, Aeronautics
Mr Ben Campion, Faculty of Medicine Centre
Miss Hayley Carr, Sport and Leisure
Miss Elizabeth Carter, Advancement
Dr Lorenzo Cattaneo, Public Health
Dr Ordel Chrony, Medicine
Dr Manoij Chandrasekaran, Medicine
Dr Ridwan Chowdhury, NHLI
Dr Charlotte Clark, Faculty of Medicine Centre
Mr James Cobb, Estates Division
Mr Spencer Cockrell, Registry
Ms Elisa Collado Fregoso, Chemistry
Dr Pedro Corda da Rosa Dias, Business School
Mr Giacomo Corleone, Surgery & Cancer
Dr Victoria Corleone, Public Health
Mr George Coutinho, Security Services
Mr Andrew Cox, Advancement
Mr Mitchell Cuddihy, Mechanical Engineering
Dr Erland Davidson, Materials
Mr Jon Davis, NHLI
Ms Lusia De Campo, St. Thomas
Mr Thomas Dehn, Surgery & Cancer
Mr Justin Devito, Chemistry
Mr Gurtinder Dhar, Estates Division
Dr Erica Di Francesco, Bioengineering
Miss Tessa Dibble, Surgery & Cancer
Mrs Michaela Djamarescu, Public Health
Mr Andrew Dimond, Clinical Sciences
Dr Erychka Fotsiadou, Computing
Miss Cassing, Medicine
Dr Cornelius Donat, Medicine
Dr Ming Dong, Mathematics
Dr Laurent Doret, Life Sciences
Dr Rui Dos Santos Climaco Pinto, Public Health
Mr James Eaton, EEE
Miss Victoria Ebo, Faculty of Engineering
Dr Malcolm Edwards, Chemical Planning
Mr Peter Edwards, Finance
Dr Ehter Ali Emir, NHLI
Miss Lucy Elsby, Faculty of Engineering
Dr Annabel Frenson, School of Professional Development
Miss Giuliana Fusco, Life Sciences
Mr Thomas Gale, Finance
Ms Joanne Gardner, Advancement
Mr John Geens, Business School
Mr Athina Georgiadou, Medicine
Miss Maria Giorgelli, Life Sciences
Dr Frank Gommer, Aeronautics
Dr Barbara Gordon, Aeronautics
Ms Martha Gonzalez, Public Health
Dr Jack Grimes, Civil and Environmental Engineering
Ms Elizabeth Gueyfey, International Relations Office
Dr Catalina Estrada Montes, Life Sciences (Silwood Park)
Dr Lukasz Farbanies, Physics
Dr Samantha Field, Faculty of Medicine Centre
Ms Shona Flannigan, Public Health
Mr Ebychka Fotsiadou, Computing
Dr Annabel Frenson, School of Professional Development
Miss Giuliana Fusco, Life Sciences
Mr Thomas Gale, Finance
Ms Joanne Gardner, Advancement
Mr John Geens, Business School
Mr Athina Georgiadou, Medicine
Miss Maria Giorgelli, Life Sciences
Dr Frank Gommer, Aeronautics
Dr Barbara Gordon, Aeronautics
Ms Martha Gonzalez, Public Health
Dr Jack Grimes, Civil and Environmental Engineering
Ms Elizabeth Gueyfey, International Relations Office
Dr Catalina Estrada Montes, Life Sciences (Silwood Park)
Dr Kathryn Hadley, EEE
Ms Helen Hadley, Mathematics
Dr Mathew Hall, Public Health
Dr Cong Han, Medicine
Dr Zong Pei Han, Public Health
Mr Benjamin Hardcastle, Bioengineering
Dr Stephen Hardwick, Physics
Dr Marsilea Harrison, Engineering Registry
Mr Thomas Haynes, Surgery
Miss Fevziye Hasan, Student Recruitment & Outreach
Ms Maunaque Hasnat, Development
Dr James Harvey, Life Sciences
Dr Neil Heitner, Environmental Engineering
Dr Simon Hu, Civil and Environmental Engineering
Miss Cynthia Hu, Chemistry
Mr Junjie Huang, EEE
Miss Aimee Hughes, Atrium
Professor Hans-Henning Huhn, Bioengineering
Ms Deborah Hunte, ICU
Mr Richard Husbands, Estates Division
Miss Caroline Janes, Business School
Dr Michael Johnson, Medicine
Miss Helen Joseph, Education Office
Miss Mominia Kalyan, Medicine
Mr Osman Kanana, EEE
Miss Akiskelini Kandylaki, Bioengineering
Dr Sadia Kanvi, Life Sciences
Ms Bernice Kaplan, Advancement
Miss Angeliki Karamani, NHLI
Ms Abiba Kazeem, Advancement
Ms Maureen Keeney, NHLI
Mr Joshua Kennard, Medicine
Mr Kristofer Kerrigan Graham, Business School
Dr Amina Khan, NHLI
Mr Angoul Antiont, Advancement
Dr Andrew Krilchick, Business School
Mr Harry Khoutouf, Public Health
Dr Przemyslaw Kruczak, NHLI
Miss Valentina Kikashla, Faculty of Medicine
Dr Paul Lee, Chemistry
Dr Ronald L_DESC_003, Life Sciences
Dr Maizen Lee, Medicine
Dr Fanny Lees, Surgery & Cancer
Dr Damon Lee, Mechanical Engineering
Miss Jolanta Leontai, Development
Dr Jon Lee, Chemistry
Miss Greece Lin, Centre for Environmental Policy
Mr Loong Li, HR
Mr Bastian Manz, Civil and Environmental Engineering
Ms Katherine March, NHLI
Dr Damian Markou, Medicine
Miss Louise Marks, Medicine
Dr Ekaterina Markova, Public Health
Mr Antonio Matero, Medicine
Mr Mauro Mattavelli, Chemistry
Mr Joshua Mayor, Computing
Mr Sean McGuinness, Estates Division
Mr Alex Mealor, ICT
Miss Liisa Mill, Registry
Dr Marjia Misra, Materials Science
Dr Stephen Moffatt, Estates Division
Dr Paolo Montalbano, Medicine
Mrs Rebecca Moody, Business School
Mr Nicholas Moul, Graduate School
Mr Will Muller, Public Health
Mr Jamie Murphy, Surgery & Cancer
Dr Eamon Murray, Physics
Ms Sara Nanchian, EEE
Dr Khodri Nelson, Mathematics
Mr Wilten Nicola, Bioengineering
Mr Andreas Nold, Civil and Environmental Engineering
Ms Nazila Noorkhan, Business School
Dr Alexander Noroni-McComack, ESE
Ms Amy Obradovic, Public Health
Mr Harrison O'Brien, Medicine
Dr Fatos Ojutalayo, Library
Ms Konke Oloko, Public Health
Miss Ashley Owen, Student Recruitment & Outreach
Dr Vito Palladino, Physics
Mrs Virginie Papadopoulos, Medicine
Miss Andriani Papadragou, Medicine
Dr Steven Pate, Public Health
Mr Thomas Pate, Public Health
Mr Max Pearson, Medicine
Miss Tabitha Pearson-Boone, Medicine
Mr Mohammad Pedramfar, Mathematics
Dr Francois Perroud, ICU
Dr Frederic Piel, Public Health
Mr Barry Pinder, Estates Division
Dr Constantina Pospisi, Life Sciences
Dr Sebastian Potter, Public Health
Miss Olivia Powell, Advancement
Mr Aaron Prendergast, Surgery & Cancer
Professor Toby Prevost, Public Health
Ms Claire Puddephatt, NHLI
Ms Alina Qureshi, Life Sciences (Silwood Park)
Miss Saadiah Raja, ESE
Mr Maurny Rahman, Medicine
Mr Christian Ramalho, Surgery
Mr Tony Regan, Advancement
Miss Sarah Ros, ICU
Miss Leonie Richmond, Advancement
Dr Andriani Rizkana, Surgery & Cancer
Dr Francesca Rossini, Surgery & Cancer
Dr Jessica Rowley, Life Sciences
Ms Fotini Rozakeas, Medicine
Dr Jacop Ronke, Grantham Institute
Dr Agnezka Rubikowska, Chemistry
Mr Loreen Ryan, Public Health
Mr Nourdinia, Surgery & Cancer
Dr Vincenzo Salerno, Public Health
Ms Eva Sapinska-Elske, Aeronautics
Dr Sina Sareh, Aeronautics
Professor Franco Sassi, Business School
Mrs Adele Savage, Surgery & Cancer
Ms Miranda Sawas, Grantham Institute
Mr Giordano Scarchetti, EEE
Dr Leila Sheldon, Design Engineering
Mr Jonathan Shepherd, Medicine
Miss Caithoan Sheridan, EEE
Dr Fan Shi, Mechanical Engineering
Miss Melissa Skurikoglu, Public Health
Mr Amin Simons, Surgery & Cancer
Mr Robert Simpson, Aeronautics
Ms Joanne Simuniok, Faculty of Medicine Centre
Miss Nathalie Simon, Chemistry
Ms Sarah Stewart, Library
Miss Yuniyo Sun, Chemistry
Mr Richard Sullivan, NHLI
Miss Christine Swart, Chemistry
Mr Nicholas Synan, Estates Division
Mr Martin Taylor, Mathematics
Mr Rowan Taylor, Estates Division
Mr Matt Terrington, Communications and Public Affairs
Mr David Thakor, Medicine
Dr Konstantin Thesmar, ICT
Mr Kalu Timpson, Mathematics
Ms Laura Tynack, Advancement
Mr Vajray Vasa, Medicine
Mr Anton Van Pantel, Mechanical Engineering
Dr Neja Van Zalk, School of Professional Development
Mr Vanessa Vella, Medicine
Mr Daniel Vilar Jorge, Surgery & Cancer
Dr Xue Wan, ESE
Mr Yujian Wang, Computing
Miss Emma Wandle, Student Recruitment & Outreach
Mrs Judith Webber, Registry
Mr Fons Weiner, Chemistry
Ms Ana Wheelock Zal dissect, Business School
Miss Emma White, Surgery & Cancer
Mr Gerard White, ICT
Mr Hickey White, Registry
Dr Chris Wood, Materials
Mr Jingwei Xian, Materials
Ms Yizhou Yu, Surgery & Cancer

This data is supplied by HR and covers staff joining the College during the period 23 December 2015 – 12 February 2016. This data was correct at the time of going to press. For Moving On, visit the online supplement at www.imperial.ac.uk/reporter

Please send your images and/or comments about new starters, leavers and retirees to the Editor at reporter@imperial.ac.uk

The Editor reserves the right to edit or amend these as necessary.
Farewell
moving on
Dr Fernando Abaitua Elustondo, Medicine (5 years)
Mr Erju Abdurahman, Catering Services
Dr Khalil Abubakab, Public Health (Silwood Park, Catering Services)
Miss Resta Al Rabeh, Medicine (9 years)
Mr Mark Allen, Security Services (5 years)
Ms Cristina Andrighetti Fortuni, Catering Services (6 years)
Mr Andrea Anfosso, Medicine
Professor Gianni Angelini, NHLI (5 years)
Miss Bonnie Atkinson, Life Sciences (Silwood Park, Catering Services)
Miss Lisa Aye, Catering Services
Dr Ebubekir Avcı, Computing
Dr Anja Barriesc, Clinical Science
Professor Facundo Batista, Medicine
Dr Cedric Beaume, Aeronautics
Dr Mariane Bignotto, Estates Division
Dr Rebecca Birch, Medicine
Professor Alex Blakemore, Medicine (14 years)
Mr David Boadu, Catering Services
Ms Rebecca Brady, Surgery, Cancer Centre
Mr Thomas Bragg, Climate KIC
Dr Milan Bratko, Physics
Mr John Brazier, Chemistry
Dr Maria Broddie, Physics
Dr Dean Brown, Medicine (Silwood Park, Catering Services)
Mr Mark Bruggemann, Civil and Environmental Engineering, Medical School
Dr Matthew Brown, Medicine
Dr Carla Canturri Gispert, Aeronautics
Dr Melina Carapeti-Marootian, Medicine
Mr Ivan Carubelli, NHLI (5 years)
Dr Nicola Casale, Medicine
Dr Joshua Chadney, Physics
Dr Robert Chapman, Materials
Dr Zhuhao Che, Chemical Engineering
Dr Chris Chandler, Computing
Dr Maria Cillitun, Mechanical Engineering (6 years)
Ms Sara Chesnicky, Registry (5 years)
Dr Young-Phi Choi, Mathematics
Dr Daniel Colquitt, Mathematics
Dr Caroline Copeland, Biomedical Engineering
Dr Edward Costello, School of Professional Development
Ms Berengayra Coutinho, Chemistry
Mr Abd Dekaak, NHLI (5 years)
Ms Alison Dexter, Public Health
Dr Stoichio Dimitrov, Chemistry
Mrs Senem Dinc Aldemir, Catering Services
Dr Elisa Dominguez Huitingher, Biomedical Engineering
Mr Jose Dominguez Mateos, Physics
Professor Sir Liam Donaldson, Surgery & Cancer
Dr Jordan Douglas, ICU
Mr Barrett Downing, NHLI (5 years)
Dr Isabel Duarte Rosa, Life Sciences (Silwood Park, Computing Services)
Dr Cheryl Dunlabe, Admission Office
Mr Mark Dunne, Security Services (3 years)
Miss Jessica Emmens, Public Health
Dr Ruth Elderfield, Medicine (6 years)
Dr Ahmad El-Laboudi, Medicine
Miss Rosalind Evans, Medicine
Dr Agnieszka Falkinska, Medicine
Miss Mamam Fanous, Medicine
Ms Nasheef Faraqi, University
Dr Judith Finegold, NHLI
Dr Pedro Fonseca Rodrigues, EEE (5 years)
Miss Sarah Fut, Registry
Dr Laura Frisk, Materials
Mr Jan-Christoph Edelmann, NHLI
Dr Andrea Gaglione, Computing
Ms Anna Gelles Sanon, Biomedical Engineering
Dr Dieter Galleas, Surgery & Cancer
Dr Fengxiao Gao, ESE
Dr Caroline Garnier, ESE
Dr Annabelle Gaunt, Business School
Mr Robert Gavins, NHLI
Cigdem Gelegen Van Eijl, Life Sciences (5 years)
Dr Siobhan George, NHLI
Mr Thomas Grey, Climate KIC
Dr Zsolt Gercsi, Physics (6 years)
Dr Belinda Hall, Life Sciences
Dr pepper Harrington, Chemistry
Mr Max Haj Steinman, Bioengineering
Dr Maren Hall, Life Sciences
Mr Benjamin Harris, Business School
Dr Jessica Hammond, Materials
Miss Rachel Harrison, Materials
Dr Richard Hendricks, Physics
Dr Katie Hennes, ESE (8 years)
Dr Richard Henshaw, Materials
Mr Robert Henry, Medical School
Dr Kyle Heslop, Chemistry
Dr Taha Husain, Medicine
Dr David Houston, Medicine
Dr Faming Hu, EEE
Dr Amir Hussain, Physics
Ms Buthaina Ibrahim, Medicine
Miss Yvette Ighour, Public Health
Dr Hannah Ishshow, Medicine
Dr Christian Jacobs, ESE
Mr Richard Jania-At, ICU
Mr Shuai Jiang, Computing
Dr Maria Jimenez Solomón, Chemistry, Chemistry (5 years)
Dr Callum Johnston, NHLI
Miss Shahed Juma, Materials
Dr Denis Kelly, Medicine
Dr Neale Kelly, Pharmaceutical Engineering (9 years)
Dr Skyee Kelly Barrett, NHLI
Dr Nakatani Kagemori, Materials
Ms Ramona Kaptan, NHLI
Dr Peyda Kothan, Life Sciences
Dr Luke Koschak, Public Health
Dr Sina Krokoski, Medicine
Dr Sujata Kundu, Materials
Ms Joanna Kuska, Sport and Leisure
Dr Mikhail Kustov, Physics
Dr Michael Kyrkides, Surgery & Cancer
Dr Tomas Lamas-Oliveira-Marques, Life Sciences
Miss Lucy Lambe, Library
Dr Matthew Lambe, NHLI
Dr Lampros Lampinopos, Computing
Dr Mohammad Latif, Civil and Environmental Engineering
Dr Anna Lavagna, Computing
Dr Pierre Le Du, Civil and Environmental Engineering, Medical School
Dr Monica Lebron, School Professional Development (6 years)
Dr Mike Lee, EEE (12 years)
Dr Eoin Leen, Life Sciences
Dr Philippe Lemarchand, Chemical Engineering
Ms Bernice Leung, Finance
Miss Wen Li, Life Sciences
Dr Jianxin Li, Business School
Dr Nan Lin, Public Health
Dr Iif, Computing
Dr Yiming Ma, Chemistry
Miss Kanta Mahay, Medicine
Dr Alice Marmug, Medicine
Dr Stephan Martin, Mathematics
Mr William Mason, ICT
Ms Emma Mawslwy, Public Health
Dr Johanna Mazzar, Public Health
Mr Francesco Mazzerotti, NHLI
Mr James Mc Gove, Public Health
Dr Felicity McPhail, Faculty of Natural Sciences
Miss Mona McNamara, Materials
Mrs Candy McMahan, Public Health
Dr Charles McEwan, Public Health
Dr Farhat Rasul, Public Health
Dr Ben Raymond, Life Sciences (Silwood Park)
Dr Gillian Rea, NHLI
Dr Daniel Reed, NHLI
Dr Stephanie Reid, Chemistry
Dr Ivana Rizzuto, Surgery & Cancer
Miss Lisa Roulinson, NHLI (18 years)
Mr Lee Sadler, Catering Services
Dr Christos Sagos, Computing
Dr Prabhjot Saini, Chemistry
Dr Karl Sandeman, Physics (6 years)
Miss Maria Sawicka, Medicine
Dr Franziska Schneider, NHLI
Dr Maik Schroeder, Medicine
Miss Srilakshmi Sekulou, Public Health
Dr Taha Shadh, Medicine
Dr Sandra Shelat, Bioengineering
Ms Reena Sheladia, Catering Services
Dr George Sherrill, Chemical Engineering
Ms Kathryn Sheriff, Public Health
Dr Karti Smith, Clinical Engineering
Dr Ian Smith, Health and Safety
Dr Nassen Soobrayen, Faculty of Medicine
Mr Anuj Sood, Computing
Dr David Soto, Medicine (8 years)
Dr Inna Spulber, EEE
Dr Richard Starke, NHLI (8 years)
Dr Nicolo Stawinia, Computing
Mr Ali Sulaiman, Physics
Miss Melvyn Tampini, Finance (14 years)
Miss Helen Tarrant, Catering Services
Miss Jenny Taylor, Natural Sciences (7 years)
Dr Alice Thompson, Mathematics
Dr Florent Tonus, Materials
Dr Maria Toño-Torres, Faculty of Medicine
Mr Matthew Towers, NHLI
Dr Tommaso Tufarelli, Physics
Professor Pietro Veronesi, Business School
Dr Alessandra Vitale, Chemical Engineering
Dr Charles Wansam, Chemistry
Dr Wen-Qin Wang, EEE
Dr Xiaofang Wang, Mechanical Engineering
Miss Maria Willemsen, EEE (5 years)
Mr Tim Weenink, Bioengineering
Miss Xiaoyao Wei, EEE
Dr Paul Westcott, Centre for Environmental Policy
Dr Daniel Williamson, Chemistry
Dr Dylan Williams, Public Health
Mr Lingchi Wu, Surgery & Cancer
Dr Joan Wylie, Chemistry
Miss Michaela Zajacova, Catering Services
Professor Pietro Veronesi, Business School
Dr Jan Zemen, Physics
Dr Jiafei Zhang, Chemical Engineering
Dr Zhigang Zhang, Chemistry
Dr Zed Zulkardi, Civil and Environmental Engineering

Death in service
Mr Steven Spencer, Security Services (12 years)

Retirement
Mr John Barnes, Estates Division (12 years)
Dr Trevor Barlow, Computing
Professor Julian Dyson, Medicine (10 years)
Mr Ewen Jassawh, NHLI (17 years)
Dr David McPhail, Mathematics (24 years)
Mr Bob Parkinson, Business School (3 years)
Professor Stephen Richardson, College Headquarters (37 years)
Mr Ian Richardson, Civil Engineering (32 years)

This data is supplied by HR and covers staff joining the College during the period 23 December 2015 – 12 February 2016. This data was correct at the time of going to press.
February 2016

**Imperial Fringe: Food of tomorrow**

What’s for dinner this evening? How about in 50 years’ time? Join our researchers for a mouth-watering, interactive journey from farm to fork, to find out about the new science that will change what we eat, how it’s produced, and its impact on our health and well-being. The Fringe will include opportunities to find out how many people planet Earth could support based on your diet, before trying a cake made with new appetite suppressing fibres that should tame any urges you have to go back for seconds.

**President’s Address and Reception**

Join President Alice Gast for her second annual address to the College community. The evening will also provide an opportunity to celebrate the external accolades and achievements of Imperial’s staff and alumni. The talk will be followed by a drinks reception in the Queen’s Tower Rooms.

**Help on hand to quit smoking**

As part of the national No Smoking Day on 9 March 2016, the charity Quit will have an advice stand on the Level 1 concourse area of the Sherfield building between 10.00–16.00.

Further information for staff thinking of quitting smoking can be found on the Health and Wellbeing web pages:


**Mountains, magmas and mushes**

Professor Matthew Jackson (Earth Science and Engineering) discusses new theories on volcano plumbing and its implications for eruption frequency and prediction, and the evolution of the Earth’s crust.

**Antarctica – hazards and honours in the name of science**

Roderick Rhys Jones, Chairman of the British Antarctic Monument Trust discusses his creation of memorials “to those who lost their lives in pursuit of science.”

**Cool plastics for a greener world**

Find out if new smart plastics turn around the reputation of environmentalism’s arch enemy, with Professor Natalie Stingelin (Materials).

**Could a machine ever argue?**

Explore why trust in the advice of machines can only come once they can argue and reason logically, with Professor Francesca Toni (Computing).

**Research showcase on FinTech**

Discover the range of projects across the College influencing financial technology innovation.

**Postgraduate Open Day**

Find out more about what it’s like to study a taught or research programme at Imperial and meet with current students and staff.