

Learning Curve

Introducing Professor Simone Buitendijk, Imperial's new Vice Provost for Education

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ENERGIZING IMPERIAL

New power plant lights the way

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RIO ROUND-UP

Celebrating College success at the Rio games

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CLOSE TIES

Imperial reaffirms its position as a European university

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EDITOR'S CORNER

Not giving in

How time flies. I started at Imperial just after the London Olympic and Paralympic games, and four years later Rio comes and goes. Imperial does not send out a squad of athletes like say Loughborough – but our involvements feel all the **more special** because of that. So it is with Dave Henson – soldier, amputee, PhD candidate and now Paralympic medallist (page 13). I interviewed Dave in 2014, after he'd finished his master's at Imperial. He'd tasted success at the Invictus Games, but played down his Rio prospects. That he was able to make the team was a feat in itself; winning a bronze, **just incredible**. The manner he did it, with a surge at the finish, was fitting for someone who never gives in. Interestingly, **dealing with setbacks** and intractable problems is also essential in research. Don't be surprised if at some point we see Dave making breakthroughs in his field of prosthetics design when he returns to focus on his PhD.

ANDREW CZYZEWSKI, EDITOR

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Bolstering EU ties

Europe's science chief came to Imperial this month to discuss the College's extensive ties with the continent.

Carlos Moedas, EU Commissioner for Research, Science and Innovation, met with Imperial's senior leadership and researchers from across the College to discuss the future of European collaboration.

The visit took place less than three months after the EU referendum result, when Imperial's President and Provost made clear that Imperial will remain a European university, engaging with policymakers at all levels.

During the discussion, academics shared their experiences of European collaboration and funding programmes.

Professor Alice Gast, President of Imperial, said: "Bringing researchers and policymakers together is of critical importance, especially after the EU referendum result. We need pragmatic ideas about the future of European research – from funding to the movement of talent across the continent. Imperial is committed to being involved in that process."

Mr Moedas advised researchers not to shy away from EU funding bids and projects following the EU referendum result, saying that for the moment "nothing has changed". The UK government has guaranteed support for Horizon 2020 and other EU-funded research projects, even after Brexit.

—DEBORAH EVANSON, COMMUNICATIONS AND PUBLIC AFFAIRS



Carlos Moedas, EU Commissioner for Research, Science and Innovation (second left)

Funding pledge

The Treasury has guaranteed support for research projects funded by the European Union, even after the UK leaves the EU.

The Chancellor Philip Hammond confirmed in a statement that: "where UK organisations bid directly to the European Commission on a competitive basis for EU funding projects while we are still a member of the EU, for example universities participating in Horizon 2020, the Treasury will underwrite the payments of such awards, even when specific projects continue beyond the UK's departure from the EU."

Over the last decade, Imperial academics have produced more than 60,000 research papers in collaboration with peers from other European countries. Collaborations include Europe-wide projects to tackle meningitis and HIV, efforts to remove mobile phone roaming charges within the EU, and the development of next generation electronics.

NICE move

NICE International, an organisation that advises governments around the world on improving healthcare systems, will now be based at Imperial.

The team has moved to the Institute for Global Health Innovation at Imperial, where they will form the Global Health and Development team.

From their new home at Imperial they will continue to lead their flagship programme funded by the Bill and Melinda Gates Foundation and Department for International Development, called the International Decisions Support Initiative.

NICE International was established as a not-for-profit offshoot of UK body the National

Institute for Health and Care Excellence (NICE). This analyses the efficacy and cost-effectiveness of medicines, devices and treatments, and then issues guidance to NHS professionals.

Professor the Lord Ara Darzi of Denham, Director of the Institute of Global Health Innovation, said the International Decisions Support Initiative will be a great asset to Imperial: "The move is a significant opportunity to build on the enormous global impact the team have fostered over the last eight years, and to drive this forward at Imperial. Placing the team's unique expertise within a world-class academic setting will provide new avenues for collaboration and partnership with international funding bodies and governments."

—KATE WIGHTON, COMMUNICATIONS AND PUBLIC AFFAIRS



Millions for biomedical research

In partnership with Imperial College Healthcare NHS Trust, Imperial has received £90 million for research to develop and improve treatments for patients.

The Biomedical Research Centre (BRC) award, from the National Institute for Health Research (NIHR), was announced on 14 September and will cover five years from April 2017. The NIHR is funded by the UK Department of Health.

The NIHR Imperial BRC was first established in 2007 and this new funding will allow the BRC to continue its world-class research into cancer, heart disease, brain sciences, immunology, infection, surgery and metabolic disorders.

In addition, for the first time, the NIHR award to the Imperial BRC will fund research into gut health, with a focus on innovative approaches to disease that consider the microbiome.

Imperial's President Professor Alice Gast said: "We are proud to receive this BRC award as it shows how important our work is. Imperial researchers are at the leading edge of discoveries in healthcare, and developing them into new treatments for patients across the world."

The funded research will build on the close partnership between the College and Imperial College Healthcare NHS Trust as the founding



members of the first Academic Science Health Centre (AHSC), which aims to improve the quality of life of patients by taking research discoveries and translating them into new therapies as quickly as possible.

Imperial College Healthcare NHS Trust chief executive, Dr Tracey Batten said: "This is fantastic news for our AHSC and is a reflection of the outstanding research work undertaken by our staff across a wide range of specialties including cancer, cardiovascular and brain science, to name a few.

"Working together, the Trust and College have long been at the forefront of cutting edge research. This funding will allow us to continue being a world leader in research and medical innovation."

—FRANCESCA DAVENPORT, COMMUNICATIONS AND PUBLIC AFFAIRS

Find out more about the BRC's work in this video: bit.ly/ImperialBRC



MOOCS move

The Business School has launched its first series of MOOCs (Massive Open Online Courses) for people who are considering doing an MBA degree.

It will be the first time that Imperial is offering a free online taster of its MBA to students who have yet to meet its rigorous entry requirements.

The free courses are offered as part of a new agreement between Imperial and edX, a non-profit online learning destination founded by Harvard and MIT that offers free courses to over 8 million learners around the world.

The new Essentials for MBA Success courses are targeted at people who are ready to start an MBA degree and want to identify any gaps in their knowledge before they undertake a full degree.

Dr David Lefevre, Director of the Edtech Lab at the Business School said: "We recognise the growing need for flexible learning programmes that cater

for people's busy lifestyles. MBA programmes, and business education generally, can change lives and through the edX partnership we are enabling more people from all over the world to access our renowned world leading expertise in business education."

Each course features leading academic experts from the Business School and combines an active, social approach to learning with extensive multimedia.

Anant Agarwal, edX CEO and MIT Professor, said: "We are honoured to welcome Imperial College London to edX. With an expertise in research and teaching designed to tackle real world challenges in business, Imperial shares the edX mission to help learners everywhere gain the knowledge and skills needed to succeed in the evolving workplace."

The courses are now open for enrolment and will start on 17 October.

—LAURA SINGLETON, COMMUNICATIONS AND PUBLIC AFFAIRS

in brief

Gender balance

Imperial has become a member of the 30% Club, demonstrating its aspiration to achieve better gender balance across the organisation. The 30% Club is a global campaign which aims to create a better balance of men and women at all levels of organisations, with a particular focus on boards and governing bodies. It launched in the UK in 2010 with a goal of achieving a minimum of 30% women on FTSE-100 boards, and has since expanded its membership to include other organisations such as universities. Imperial's governing and executive body, Council, currently has a membership of 25% women.



Forging links

Leaders of technological universities across the world gathered at Imperial this month to discuss collaboration, innovation and global challenges. The Global Alliance of Technological Universities, known as GlobalTech, is an international network of leading science and technology institutions. Founded in 2009, it aims to address global societal issues - such as climate change, population growth and food security - through science and technology. Imperial is a founding member of the Alliance, which counts institutions such as Caltech, NTU, and ETH Zurich among its members.

Leap forward

A new pilot training programme has been launched for managers working in the Finance, Operations and ICT group at Imperial. The 'LEAP' programme, 'Lead - Engage - Apply - Perform', is a five day programme for line managers focussed on how to optimise talent, communicate well, collaborate across teams and champion change. The training reflects Imperial Expectations; seven statements that shape the behaviour of all Imperial staff. Trainees will be supported by individual coaching, self-assessment, appraisals, as well as master classes.

Harnessing talent

The latest cohort of staff from Imperial's black, Asian and minority ethnic talent development programme gathered this month to celebrate their journey and share their experiences.

For the past four months staff have been taking part in the IMPACT programme, which includes specialised workshops and project work, as well as access to mentoring and networking opportunities. It aims to support staff who wish to further their careers at Imperial by developing and fine tuning both new and existing skills and talents.

We caught up with three members of this year's cohort following the programme's conclusion earlier in September.

Kevin Isen, Project Manager in ICT said: "I saw IMPACT as an opportunity to develop my management skills and to see where the gaps were. It's different from a lot of the other courses offered by the College as it encompasses the full skillset rather than focusing on one particular skill.

"Through IMPACT I realised that I would like to be part of the strategic planning of projects. At the moment I'm just given my projects – I'm not part of the initial discussions when the project is being scoped out."

Mirabell Nsofor, Contracts Officer in the Research Office added: "There is a lot of scope for positive change at the College in terms of fulfilling the College's strategy and Imperial Expectations – creating a more open, fair and inclusive organisation. The workforce here is quite diverse - different cultures, different backgrounds – and this contributes to the success of the College."

—ELIZABETH NIXON, COMMUNICATIONS AND PUBLIC AFFAIRS



Doors open

A new visa pilot scheme will make moving to the UK easier for international students who win a place on Imperial Masters programmes.

The Tier 4 Visa pilot scheme, launched this week by the Home Office, supports applications from talented students from across the world who wish to study at Imperial and three other UK universities.

Those who achieve places on Imperial's one-year Masters courses will gain access to a streamlined visa application process. Students will also be granted an additional six months on their UK visa after their course ends, allowing for extra time to find work or pursue further study and research.

Imperial joins the universities of Oxford, Cambridge and Bath in piloting the scheme, which will affect visa applications decided on or after 25 July 2016. It is open to students commencing their studies in 2016/17 or 2017/18.

Imperial's President Professor Alice Gast said: "International students are a priority



for Imperial and they add to our diverse community in myriad ways. They bring creative, entrepreneurial and academic excellence.

"This pilot scheme is an encouraging step forward. The ability to stay on for six months will bring benefits to the students and to the country as our talented graduates will be able to pursue their entrepreneurial ideas, further study or add to the UK's talent pool."

—ANDREW SCHEUBER AND DEBORAH EVANSON,
COMMUNICATIONS AND PUBLIC AFFAIRS

Peace of mind

New scheme to launch in 2017/18 will allow students unable to find a UK based guarantor to use the College in rental agreements.

The pilot scheme will see the College act as a legal guarantor underwriting rent obligations for students renting in the private sector who are not able to provide a suitable guarantor themselves.

Many students do not have someone based in the UK who is able to act as a guarantor – whether international students whose families are based overseas, or home students from a low-income background.

The pilot will be open to all returning undergraduate students (first years already have guaranteed accommodation in halls of residence).

Imperial's Provost, Professor James Stirling, said: "The College is committed to providing high quality accommodation to all its first year undergraduate students but we've always known that after this securing accommodation can sometimes be

difficult, particularly for international students, because of the requirement for rent guarantors.

"In launching this pilot we're pleased to be able to help students who would otherwise be faced with expensive upfront costs when renting. I'm sure this scheme will be greatly welcomed by our student community."

The scheme is being launched following recommendations from Imperial College Union led by the 2015-16 Deputy President (Welfare) Jennie Watson, looking at the challenges students face in securing private accommodation once they leave College accommodation after their first year.

Emily-Jane Cramphorn, Deputy President (Welfare), Imperial College Union said: "The scheme will make a real difference to undergraduate students – another example of what we can achieve when we work together with the College on behalf of our student community. I will be looking to build on this approach over the coming months."

—JON NARCROSS,
COMMUNICATIONS
AND PUBLIC AFFAIRS

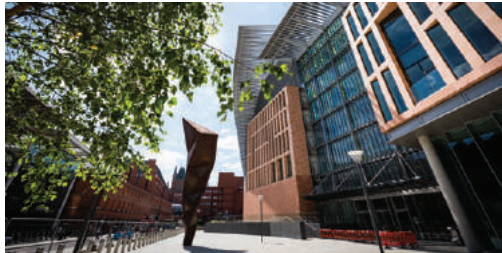


media mentions

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First look inside new £650 million superlab

EVENING STANDARD ▶ 01.09.2016

The Francis Crick Institute, a complex one million square feet in size next to St Pancras International station, will become Europe's biggest biomedical research institute as scientists help fight some of the 21st century's deadliest diseases, the *Evening Standard* reports. More than 100 labs inside the 12-storey glass-fronted building will help scientists investigate the basic biological processes underlying human health. By the New Year there will be 1,250 scientists and 250 support staff at the Crick. The institute is funded through the Medical Research Council, Cancer Research UK, Wellcome, University College London, Imperial College London and King's College London (see page 11).

Controversial pill that could 'cure' alcoholism

THE GUARDIAN ▶ 16.09.2016

France is ground zero for clinical research on Baclofen, a drug said to eliminate alcohol cravings. The medication will soon be more accessible than ever – but not everyone thinks that's a good thing. Anne Lingford-Hughes (Medicine), Professor of Addiction Biology at Imperial, supports the idea that the more severely dependent on alcohol you are, the more likely you are to get benefits from Baclofen. But more data is needed she adds, pointing to concern over drug/alcohol interaction, as well as potential overdoses. None of her colleagues in the UK, she says, would prescribe as high a dosage as is currently prescribed in France.

Rosetta's end could tell us how the solar system was formed

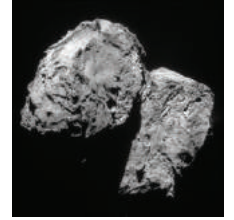
iNEWS ▶ 18.09.2016

After 12 years in space, the Rosetta spacecraft is poised to crashland on the comet it has been orbiting for two years – heralding a new era in our understanding of where we came from. "Comets are so fascinating because they are pristine material from which the rest of the solar system formed," Chris Carr (Physics),

who built the instruments measuring the plasma coming off the comet.

Speaking to *iNews*, Dr Carr says so much data has been collected that it could take 30 years to get to the bottom of it all.

"I can't say too much, but people involved with the mission are preparing research papers that are going to be very high impact," he said.

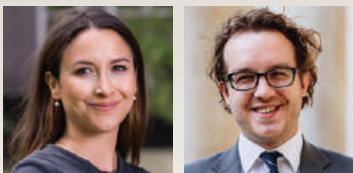


Green light for £18bn power station at Hinkley Point

EVENING STANDARD ▶ 15.09.2016

Theresa May averted a major bust-up with China today as she finally gave the green light to the £18 billion Hinkley Point nuclear power station, the *Evening Standard* reports. Lib-Dem Lynne Featherstone said: "Hinkley is now very bad value for money for the British taxpayer and should be abandoned immediately." But Dr Simon Walker, head of the nuclear research group in mechanical engineering at Imperial said: "The Government had to stick with the previously agreed price otherwise EDF may have walked away from the deal. "All low-carbon electricity is likely to be more expensive than that produced from fossil fuels. Hinkley is no exception to this."

awards and honours



COLLEGE

Fulbrightest and Best

Two Imperial students awarded prestigious Fulbright Scholarships allowing them to continue their education in the United States. Laura Connell and Benjamin Miller are two of the 46 British grantees that make up the 2016-17 Fulbright Cohort. Laura, currently an MPhil student (Medicine), will be studying at Harvard Business School for a Masters

of Business Administration (MBA) with a special focus on healthcare technology and services. Benjamin, who graduated from the College in 2012 with an MEng in Biomedical Engineering, has will study for a PhD in Bioengineering at the Massachusetts Institute of Technology (MIT).

ENGINEERING

Engineering success

Imperial is celebrating the election of three more researchers to the Fellowship of the Royal Academy of Engineering. Professors Ahmed Elghazouli (Civil and Environmental Engineering), Ron Hui (Electrical and Electronic Engineering) and William Jones

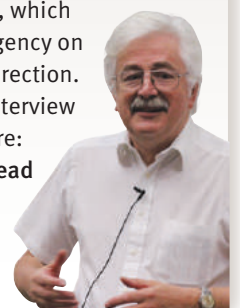
(Mechanical Engineering) have been formally elected this month. Becoming a Fellow is one of the highest honours that an engineer can receive in the UK and Fellowship is awarded in recognition of outstanding and continuing contributions to the profession. The new elections take the number of Imperial Fellows of the Royal Academy of Engineering to 84.



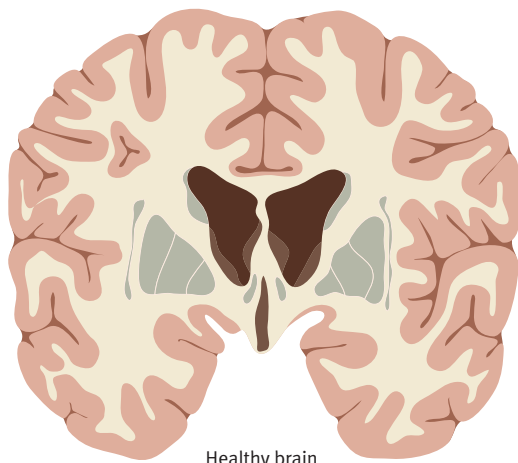
NATURAL SCIENCES

Head space

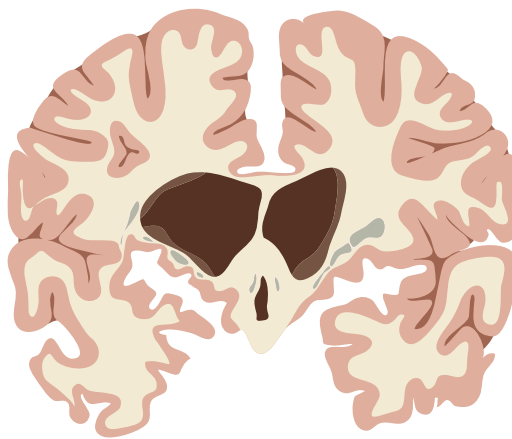
Professor David Southwood has been appointed to a top role the UK Space Agency as it navigates Brexit and celebrates Tim Peake's success. Professor Southwood is a Senior Research Investigator (Physics) focusing on solar-terrestrial physics and planetary science. He now takes on a new role as Chair of the Steering Committee for the UK Space Agency, which advises the agency on its strategic direction. Listen to an interview with David here: bit.ly/spacehead



Hope for Huntington's disease



Healthy brain



Huntington's brain

A single injection of a new treatment has reduced the activity of the gene responsible for Huntington's disease for several months in a trial in mice.

Huntington's disease is a genetic disorder that affects around 1 in every 10,000 people and damages nerve cells in the brain, leading to neurological symptoms affecting movement, cognition and behaviour. It is caused by a mutant form of a single gene called Huntingtin.

Now, researchers at Imperial have engineered a therapeutic protein called a 'zinc finger' that targets mutant copies of the Huntingtin gene, repressing its ability to express and create harmful proteins.

Project lead Dr Mark Isalan (Life Sciences) said: "We are extremely excited by our latest results, which show a lot of promise for treating Huntington's disease.

"However, we still need to do a lot of work first

to answer important questions around the safety of the intervention.

In a previous study in mice, the team had curbed the mutant gene's activity for just a couple of weeks. By tweaking the ingredients of the zinc finger in the new study they were able to extend its effects to several months, repressing the disease gene over that period without seeing any harmful side effects. This involved making the zinc finger as invisible to the immune system as possible. The team are now working on ways to lengthen the repression period even further.

"If all goes well and we have further positive results, we would aim to start clinical trials within five years to see whether the treatment could be safe and effective in humans. We are urgently looking for industry partners and funding to achieve this," Dr Isalan said.

—HAYLEY DUNNING, COMMUNICATIONS AND PUBLIC AFFAIRS



Ticking time bomb

Huntington's usually only begins to show symptoms in adulthood. There is currently no cure and no way to slow the progression of the disease. Symptoms typically progress over 10-25 years until the person eventually dies. The mutant Huntingtin gene is thought to cause toxic levels of protein to aggregate in the brain. Preventing the activity of this gene could theoretically halt the disease, but this has been difficult to achieve.

The gene is present in many different cell types in the brain, making it difficult to target, and every patient also has a non-mutant copy of the gene, which scientists need to avoid targeting with any intervention in order to prevent unwanted side effects.

The zinc finger protein sticks to the DNA of the mutant Huntingtin gene and turns off the gene's expression. "We don't know exactly how the mutant Huntingtin gene causes the disease, so the idea is that targeting the gene expression cuts off the problem at its source – preventing it from ever having the potential to act," said Dr Isalan.

“We are extremely excited by our latest results... If all goes well we would aim to start clinical trials within five years.”

Potential energy

Researchers have created an interactive web tool to estimate the amount of energy that could be generated by wind or solar farms at any location.

The tool, called Renewables.ninja uses 30 years of observed and modelled weather data from organisations such as NASA to predict the wind speed likely to influence turbines and the sunlight likely to strike solar panels at any point on the Earth during the year. These figures are combined with manufacturer's specifications to give an estimate of the power output that could be generated by a farm placed at any location.

"We built our models so they can be easily used by other researchers online."

It aims to make the task of predicting renewable output easier for both academics and industry, as co-creator Dr Ian Staffell (Centre for Environmental Policy) explains.

"Modelling wind and solar power is very difficult because they depend on complex weather systems. Getting data, building a model and checking that it works well takes a lot of time and effort.

"If every researcher has to create their own model when they start to investigate a question about renewable energy, a lot of time is wasted. So we built our models so



they can be easily used by other researchers online."

To test the model, Dr Staffell and colleagues used Renewables.ninja to estimate the productivity of all wind farms planned or under construction in Europe for the next 20 years.

One finding was that taller turbines placed further out to sea would allow three times as much energy to be produced by wind power in Europe compared to today.

They also found that even though Britain is not the sunniest country, on the best summer days solar power now produces more energy than nuclear power.

—HAYLEY DUNNING, COMMUNICATIONS AND PUBLIC AFFAIRS

New gesture technology could lead to more realistic virtual worlds

Dr Tae-Kyun Kim (Electrical and Electronic Engineering) is in charge of one of the world's leading labs in human-machine interface technology. His latest breakthrough is the development of prototype 3D hand-gesture interface technology.

What is a hand gesture interface?

The technology consists of a depth camera, which records hand movements, and relays information to a computer where a program creates a diagram of the hand. Each hand movement is plotted as a set of 3D coordinates on the diagram.

If a coordinate on the diagram moves it is interpreted by the computer as a command. This enables the user to control a computer by simply moving. Many gamers will know the Microsoft KINECT technology – a system that can record body movements in real-time to control games.

What are the drawbacks with the technology?

They can only recognise a limited set of hand movements and the information captured is only displayed in two dimensions. In the real world, we are constantly using our hands in complex configurations to communicate. These gestures can be rapid and varied. To enable users to have more complex interactions with this technology then hand gestures need to be captured in 3D.

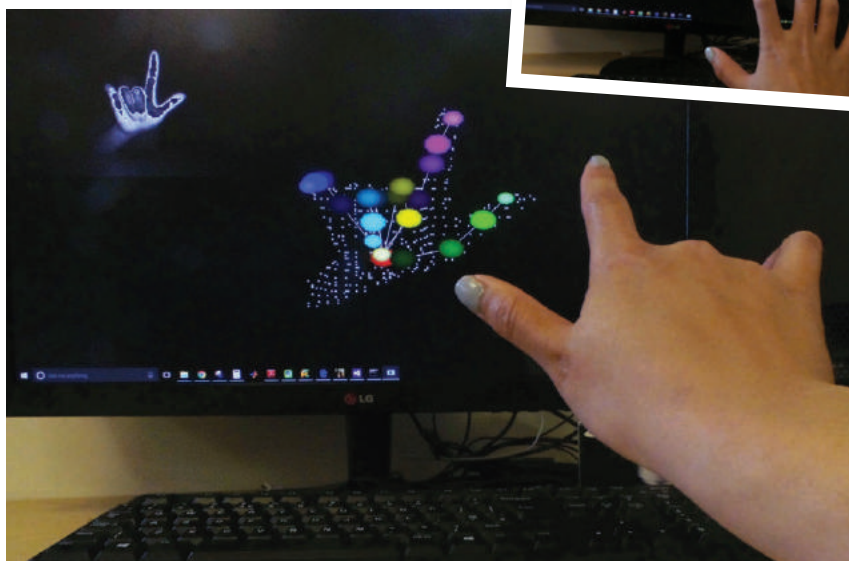
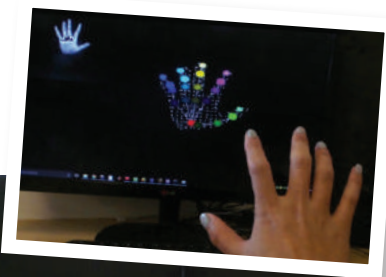
—COLIN SMITH, COMMUNICATIONS AND PUBLIC AFFAIRS

How is your research group addressing this challenge?

We've developed technology that recognises full hand movements from 21 coordinates on the hand – capturing different articulations and viewpoints of the hand in 3D, which means that we can detect much more complex hand gestures. We use machine learning techniques that enable computers to learn and predict rapid hand movements in real-time with minimal instruction from us.

What are the implications for your breakthrough?

In the future, we could create environments in virtual or augmented reality that are much more realistic for the user. Imagine putting on a virtual reality headset that detects every subtle hand gesture you make, so that you could play a virtual instrument like a violin. Just as we interact with objects, people and the environment in the real world, this technology could make our virtual encounters just as real.



Sleeper cells

A new study suggests it may be possible to predict which people infected with TB will develop the disease.

Scientists have found evidence of a separate 'sub-clinical' stage in tuberculosis (TB) infection, where people have no symptoms but are more likely to develop the full disease.

The results offer hope in controlling spread of disease, says study co-author Professor Robert Wilkinson (Medicine): "People ill with TB can infect up to 10–15 other people through close contact and if we can identify people in the transition stage, before they transmit the disease, that's potentially a game-changer in terms of TB eradication."

Conventionally, TB infection is classed into two stages: 'latent' and 'active'. People with latent infection test positive for an immune response to the TB bacteria, *Mycobacterium tuberculosis*, but do not have the symptoms of active disease.

Around 10 per cent of people with latent TB infection progress to active disease if left untreated. However, currently there is no accurate way to predict which infected individuals will develop the disease.

The team used a combination of medical imaging techniques to study the lungs of the 35 patients who had latent TB.

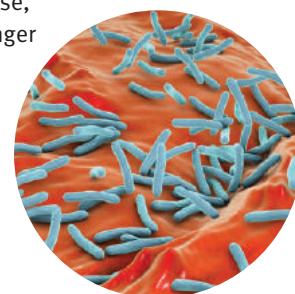
Ten out of the 35 participants with latent TB infection had lung abnormalities – or 'hot spots' consistent with a transitional or subclinical stage of TB progression. The other 25 participants had no hot spots and showed no signs of disease progression.

Over the course of the study, four of the 10 patients with lung abnormalities developed fully-fledged TB symptoms and started full treatment for TB.

Professor Wilkinson said: "These high-tech images provide us with new ways to evaluate whether treatment has cured an infection. Most importantly, it will show whether we need to treat for the full recommended duration of six months, as most patients find the standard six months regimen of two or three different antibiotics very challenging."

The researchers are also investigating cheaper, simpler methods of identifying subclinical TB, for use in sub-Saharan Africa, where latent TB is rife.

—KATE WIGHTON, COMMUNICATIONS AND PUBLIC AFFAIRS



1.5
million

number of people who die of TB annually

2
billion

estimated number of people with latent TB



Power for the people

This month the College installed a new efficient power plant that will provide electricity and heating across the South Kensington Campus

Imperial houses some of the most advanced, energy-hungry equipment in all of London. There's 'Cerberus', the UK's most powerful non-military laser, based in the Physics Department; the Data Centre with rows upon rows of high performance computing (HPC) servers that need 24-7 power and cooling; and across College there are freezers full of important biomedical samples and cells.

This means that planning for the College's energy and heating demands is a particularly... demanding task, which falls largely to a team of engineers and experienced project managers in Estates Facilities.

Back in 1999 it was decided that the College should replace the old boilers that burned heavy oil to heat water and also look for a supplementary source of electricity to work in concert with the grid. This was achieved with the installation of a Combined Heat and Power (CHP) plant, which has recently been replaced with a new, more efficient design.

Andrew Caldwell, Energy Manager in Estates Facilities, explains the thinking behind CHP.

"Typically in your home, you will get electricity from the National Grid which might for example be generated in gas-fired power

stations in the Midlands, as is the case for many homes in London. When the plant burns gas, all the heat goes up the chimney and is wasted – and the electricity is then transmitted long distance. So overall, from the fuel source to your house, it's about 40% efficient.

"Given the College's very large demand for heat and power, we really need to be employing more efficient solutions and CHP fits that bill as it generates electricity for us to use on site but also captures most of the waste heat from burning gas which we can use for heating buildings, producing hot water and generating steam for autoclave facilities. Crucially, we think our new system will be around 80-90% efficient overall."

Central to the new CHP project has been data gathering and metering across the site. Before any new energy solution was considered it was important to get a more detailed picture of how the College uses energy and heat and at what times.

"CHP generates electricity but also captures most of the waste heat from burning gas. We think our new system will be around 80-90% efficient overall."

Andrew and team completely re-designed how they capture, store and output data – with a new system and software now rolled out to most of Imperial's Campuses.

"All our buildings are controlled by one central building controls system that turns on fans, pumps, and so on. It's very big and very complex. We did a lot of work optimizing those controls; essentially making sure that we turn things off when there's no requirement and reduce the amount of air going to labs when they are empty for instance. We've also done work in all the plant rooms to change how that system interacts with the building."

Having set the system up and collected data for an extended period they then fed into the College's 2014 Site Energy Strategy carried out in collaboration with engineering consultants Arup.

The strategy examined a broad range of technologies for potential use at College, including solar photovoltaics (PV), biomass, borehole aquifers, and CHP, and also factored in external variables such as projected gas prices.



The strategy board then decided the best thing to do practically, economically and in terms of curtailing carbon emissions for the next 20 years.

It quickly became clear that some options would simply not be feasible for the South Kensington site – for example generating our energy from biomass sources would require the delivery of 17 articulated lorry-loads of biomass per day to the campus with a substantial increase in traffic.

The recommended course of action was the installation of the latest CHP technology – in combination with other efficiency gains, for example replacing fluorescent lighting with LEDs, something that is already happening at College.

The new CHP plant will fire up in October,

ready for the winter season. Andrew says that conservative estimates suggest the engines will meet around 75% of the South Kensington Campus' electricity requirements and a high percentage of waste heat will be utilised in meeting the campuses heating requirements. Indeed, there could be a surplus of heat, and the team is looking at ways of maximizing that capability.

Currently there are water and steam networks which service radiators, hot water taps, autoclaving, cooling absorption chillers and air handling units. The team are considering extending the heat network under Exhibition Road to Princes Gardens, encompassing Halls of Residence and Ethos – which, with its constantly running showers, is major heat user.

Greater independence

Imperial's CHP plant is one the largest in central London – but it's not alone. The Shard building has its own CHP plant, as does Citibank for backing up its vital financial servers. Meanwhile, more individual homes and local communities are looking for ways to achieve a greater level of energy independence, particularly with small-scale, off-grid renewables such as solar photovoltaics.

Reporter asked
Professor Timothy Green, Director of the Energy Futures Lab at Imperial, if this trend for decentralization is likely to continue apace.

"London and the Southeast are short of generation as there are not many power stations in the area, so we import much of our energy.

"A lot of organisations are looking at on-site generation from renewable sources, such as solar PV – but it's not necessarily easy in city centres; you've got tall buildings with large occupancy and a relatively small roof space, so PV helps but it's hard to make a big contribution. I think this is all part of a move to a more decentralized electricity system and energy system more generally."

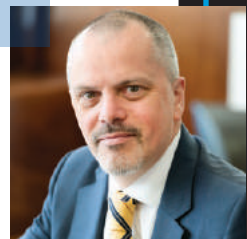
Nevertheless, Tim believes we will retain big power stations – ideally alongside a more advanced grid that can connect large scale gas, nuclear, wind and solar so they can better complement each other at different times of the day. If it's not a very windy evening you can fall back on nuclear for example to cook dinner.

As part of the ongoing dialogue about our energy requirements he says that community groups can have an important role to play – and cites the example of his own home village of Balcombe in West Sussex. Following a successful test bore for shale gas a few years ago, the village saw some of the biggest protests in the UK against extracting shale gas using 'fracking'.

"Ultimately it made many people in the village think about where they got their energy from and what sort of energy they wanted to use – perhaps they were against exploiting shale gas, but what were they for?"

"So a group of people set up a community group called Repower-Balcombe, which started putting up solar PV on the roof of the school and some farm buildings – just trying to get toward energy self-sufficiency. But they quickly realised that PV works well works in the middle of the day but that they would need to import power to sell to residents in the evening. So what would be the best option? A contract with a nearby wind farm or gas-fired power station?"

"The important point is that people started to think about where their energy came from – not just assuming it's over the horizon somewhere. Community energy starts to engage people in that debate about what we're in favour of – and we need to do that because there are some big transitions coming."



"People started to think about where their energy came from – not just assuming it's over the horizon somewhere."

POWER HOUSE STATS

Engine Model: 2 x General Electric, Jenbacher Type 624 Features: 2-stage turbocharger for improved efficiency and flexibility

Fuel type: Natural gas

Output (kw)

9,000 Electrical

8,024 Thermal

Learning Curve

Meet Imperial's new Vice Provost for Education, Professor Simone Buitendijk

Leading educator and physician Professor Simone Buitendijk joined the College last month as Vice Provost (Education), having moved from the Netherlands where she performed a similar role at Leiden University as Vice-Rector Magnificus, with responsibility for education and student affairs.

When I ask if she misses the 'Magnificus' title from the 16th Century institution, Simone bursts into an infectious laugh that's a feature throughout our interview.

"Friends in the US and the UK always used to have a lot of fun with that title; it has such a Harry Potter ring to it doesn't it? But having 'Imperial College London' embossed on my business card will more than make up for it though," she says.

“We can do a lot better in ensuring students understand that they are in a research intensive university and engaging them in research.”



Simone's obvious warmth, sense of humour and empathy with students will no doubt stand her in good stead for her role in leading Imperial's vision for education and student experience.

As a globally recognised researcher in public health, Simone is also well placed to help deliver the College's Strategy 2015–20, which reaffirms Imperial's mission to achieve enduring excellence in research and education for the benefit of society.

Building bridges

But how best to bridge these sometimes disparate worlds of teaching and research?

"That's the million dollar question that all research-intensive universities are trying to answer and I'm afraid, as a group, we're not doing a good enough job," Simone says.

"We can do a lot better in ensuring, firstly students actually understand that they are in a research intensive university, but also engaging them in research. For example, there are ways of letting students practice with actual research and with databases."

Simone draws on a wealth of experience in education and says there are numerous types of great teaching and different ways of defining it. She does though emphasise the need for a positive experience on both sides – a partnership with a genuine connection. That can come through traditional teaching methods, but also through online and blended learning.

"Innovation and online learning is one of my themes, but it should never be a goal in and of itself – it's a tool. You need to make sure it enhances the connection, for example using classroom technology with handheld devices, where the teacher has a dashboard and can immediately see students' follow-up questions and answers."

Challenges ahead

The challenges inherent at Imperial, as an elite university trying to maintain research excellence and improve teaching, was something that actually appealed to

Simone's CV

- *Vice-Provost (Education)*
Imperial College London
- *Vice-Rector Magnificus, in charge of Education, Student Affairs and Diversity*
Leiden University
- *Professor of Women's and Family Health*
Leiden University Medical Center
- *Professor of Maternal Health and Midwifery*
Amsterdam University Medical Center (AMC)
- *Head Division of Child Health*
TNO

Simone. Indeed, she doesn't shy away from one of the more specific challenges, which is the recent dip in National Student Satisfaction (NSS) scores. Whatever the root causes of the drop, she says the first step is to listen more to students and try to better understand the student experience across the board.

"Many students in their qualitative reviews complained that they are not being seen and heard. It's important for people in positions of responsibility like me to listen empathically

to both staff and students and find out where things aren't going so well and how we can improve"

As part of its response to this year's NSS results, the College will be working with Imperial College Union to review the results in detail and to develop a joint action plan to address problem areas identified. The College also plans to introduce new teaching initiatives with a focus on student feedback, research experience and entrepreneurial opportunities.

Indeed, Simone points to the Enterprise Lab, an exciting new facility in the basement of the Library for students who have entrepreneurial aspirations or just want to enhance their workplace skillset (see page 12).

"I'd actually like to expand the definition of entrepreneurial; we should offer opportunities for students who want to change the world in different ways – working with NGOs or improving healthcare delivery in different regions for example."

Earlier in the year, Simone herself went on an enterprising mission to South Africa and Mozambique alongside colleagues at Leiden – to explore new opportunities for delivering online learning.

Closer to home, Simone is slowly settling into London life. With the unseasonably warm mid-September weather she's been walking from her home in Earl's Court into the College most days.

"I'm assured by my colleagues it almost certainly won't last, so I'm making the most of it while I can!"

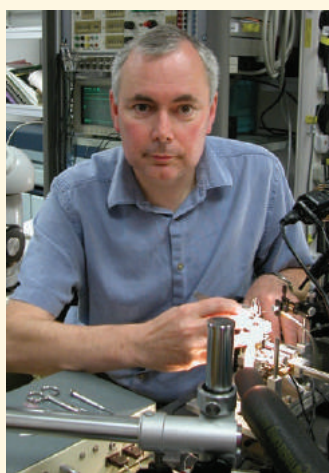
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story

mini profile

Malcolm Irving

Professor Malcolm Irving FRS is Associate Research Director (Partner University Liaison) at the recently completed Francis Crick Institute. A leading academic at King's College London, he represents the three university partners (King's, Imperial and UCL) at the Crick.



You're a biophysicist – how did that come about?

I was a physics undergraduate but by the end of my degree I decided that the really exciting bits of science were in biology. So I did a master's degree in physiology at UCL, followed by a PhD. After posts in the US, I ended up at the Cell Biophysics unit at King's set up by John Randall who led the King's team that worked on the structure of DNA. His deputy Maurice Wilkins shared the 1962 Nobel Prize with Watson and Crick. Interdisciplinarity is not new of course, but the scale has changed; the reach and breadth is so much bigger now.

Did you always believe that interdisciplinary research could be painted on a larger canvas?

Yes, but that idea was already in the original proposal and stems from the MRC's realisation that their home at Mill Hill, being far away from any hospital, was not the

best place to build links with experimental medicine and clinical applications. When King's and Imperial joined UCL it was already on the agenda to create two kinds of interdisciplinary partnership – one at the clinical interface and another at the physical sciences interface. The universities are key players in both interfaces.

How do you interpret your role at the Crick?

What we clearly need is to facilitate interactions between the universities and the Crick – and the liaison job is to a large extent trying to bridge the cultural and organisational gaps that exist. The Crick as a core-funded, independent institute feels a lot different from the universities, and group leaders at the Crick have a slightly different approach to their research than typical PIs in universities. I sit at the Crick table and bring the university perspective – and it works the other way round as well.

Imperial celebrates 2016 academic promotions

Imperial has recognised the hard work and dedication of 124 of its academics with the 2016 round of promotions in the Faculties of Medicine, Engineering and Natural Sciences.

This year, the Provost's Board has approved the introduction of a new Professor of Practice title, which recognises individuals who have made an outstanding contribution to education, research or leadership outside of the established criteria for a professorship.

Professor Nigel Gooderham, Assistant Provost (Academic Promotions), said: "I am fortunate to see the development of our academics as they progress from lecturer to professor. It is a privilege to work alongside these individuals and a pleasure to see them move successfully through our promotions process."

Below, we meet three of the newly promoted staff.

Professor Anne Dornhorst, Imperial Centre for Endocrinology

Professor Anne Dornhorst, a leading diabetes expert, is one of the first members of staff to become a Professor of Practice. She first joined the College in 1995 as an honorary senior lecturer and she is also a diabetes consultant at Imperial College Healthcare NHS Trust. Her key research area is diabetes during pregnancy, which she believes is a driver of the global obesity crisis. Professor Dornhorst also mentors female doctors on balancing career with family life.



"Having a career and a young family is certainly not easy – when I was a junior doctor I would race home to read my two sons a bedtime story, then head back to the wards once they were asleep. Becoming Professor of Practice is an enormous honour, and will hopefully show women at the early stage of their career that a Professorship is possible."

Dr Tae-Kyun Kim, Electrical and Electronic Engineering

Dr Tae-Kyun Kim has been promoted to the role of senior lecturer. His research is in the field of computer vision and learning, where he is developing the next generation of hand gesture recognition technology (see page 7).

Dr Kim said his promotion is in part a reflection of the great work of his research group: "I've stuck to the advice that was given to me, which is to recruit people who can contribute their ideas to the group so that others can benefit. I also think it is always important to encourage team spirit, open-minded discussions and collaborations to get the most out of your group."



Dr Marina Kuimova, Department of Chemistry

Dr Marina Kuimova has been promoted to Reader in Chemical Physics. She uses fluorescence imaging to investigate biological cells and tissues, with applications both in medicine and in pure research.

On her promotion, Dr Kuimova said: "I am delighted to have received this recognition from my peers. Being an academic at Imperial is a fantastic opportunity for anyone fascinated by research. This promotion comes very shortly after my return from maternity leave and at this critical time spurs me on and motivates me to strive for even more in the future."



For a full list of academic promotions visit: bit.ly/promotions2016

Great minds gather

Aspiring innovators and entrepreneurs at Imperial will soon have a new place to meet, develop ideas together and get advice and support, with the imminent launch of the Enterprise Lab.

The Lab is based in a brand new facility in the basement of the Library in the Sherfield Building. Once fully up and running it will offer state-of-the-art digital tools, techniques and training to help students build better business plans and improve their performance at pitching to potential clients, partners or investors.

It will not only help nurture budding entrepreneurs, but also give students the knowledge, skills and experience to compete for the best jobs and make a real impact in companies that hire them as some of the best paid graduates in the country.

Bruno Cotta, formerly Director of Enterprise Strategy in the College's Enterprise Division (and Imperial Engineering and Business School alumnus), came up with the idea for the Lab and will head the new support team.

He said: "Our aim is to maximize the impact of Imperial's unique multi-disciplinary and enterprising culture in which every student is encouraged to translate their ideas into practice – whether it's through innovation in organizations they join, or entrepreneurship in organizations they create themselves."

The Enterprise Lab will also support a new Imperial Horizons course in innovation and entrepreneurship, host the pioneering Althea-



Imperial programme for aspiring female students with new business ideas, as well as the growing the 'Create' community of technology start-up teams and Venture Catalyst Challenge.

Ultimately, Bruno hopes the Lab will bring staff and students from all disciplines together with Imperial's global community of alumni and friends, partners and businesses – stimulating and supporting the development of a whole new generation of innovators and entrepreneurs.

"We look forward to welcoming past, present and future students to drop in to the Enterprise Lab, whether it's just to find out more, join us for coffee, or get started on their mission to change the world!"

Summer of start-up successes for alumni

Imperial's enterprising alumni have pushed the boat out this summer, in more ways than one, with ex-students driving three major technology start-up successes in the space of as many months.

JUNE

Magic Pony, an AI start-up co-founded by Computing alumnus Zehan Wang was acquired by Twitter for \$150m. Using machine learning techniques, Magic Pony creates high-quality videos from grainy footage.



AUGUST

Ocean data gathering service Saildrone raised \$14m in a series of funding investments, including from Google pioneer Eric Schmidt. Founded by alumnus Richard Jenkins, Saildrone deploys fleets of unmanned, autonomous sailing drones to monitor weather, fish populations, ocean acidification and climate change.

SEPTEMBER

The mobile advertiser Avocarrot, founded by Information Systems Engineering alumnus George Eracleous, was acquired by Glispa Global Group for \$20M.

avocarrot

Ship shape: shipping containers as farms of the future

An Imperial design engineering student has created a new hydroponic farming system to utilise wasted space in the shipping container industry.

Every year millions of tonnes of goods are shipped across the world in shipping containers. Global trade patterns mean that whilst these 20,000,000 containers set off packed full of goods, many make their return journey empty.

Imperial design engineering student Phillipe Hohlfeld has developed Growframe, a collapsible hydroponic farm that can be set up to grow crops in otherwise empty shipping containers on their return journeys.

When set up in a 20 foot container Phillipe estimates that Growframe will be able to produce around \$1,500–\$2,000 of crops in a journey. When not in use it collapses to 1/10th of its original size making it easy to transport on the outward journey before being put to use on the return trip.

"For routes between China and every other continent so many of the containers go back empty because so many goods are produced in China," Phillipe said. "The empty container was an opportunity. There's 12sqm of land in a container, it's essentially free, it's sealed and you can do anything you want in it."

"I wanted to create something that could exist autonomously over three weeks in the sealed container and help fulfil a need in China," Phillipe added. "China is having a lot of problem with crops due to pollution, so Growframe could provide a solution there."

The product is currently in its testing stage, having produced successful on-land harvests of vegetables such as pak choi, lettuce and beansprouts. Phillipe is currently working to take Growframe to sea for its next big test.



Imperial at the Rio games

Celebrating the College's success in the Olympic and Paralympic Games.

The sound of silver

Celebrations were held last month for returning Olympians from Imperial's Boat Club (ICBC), who clinched silver at this summer's Rio games. Imperial alumnus Mel Wilson and fellow ICBC rower Zoe Lee took the silver in a historic win in the Women's Eight event – Team GB's first ever medal in that race.

Mel, Zoe and the rest of the held off Romania on the line, finishing a nail-biting 0.12 seconds ahead. The US, who were favourites in the competition, retained the gold they won in both 2008 and 2012.

Imperial's Provost Professor James Stirling hosted the event to congratulate the returning Olympians, as well as recognise everyone at ICBC who contributed to their success.

Professor Stirling said: "The Olympics lifted the whole nation's spirits this summer with two fantastic weeks of sport. We're so proud of Mel and Zoe for being part of that success.

"Mel's medical degree and Zoe's PhD are difficult things to achieve in themselves but to the couple that with the intensive training needed for the Olympics is an incredibly impressive feat."

Mel said: "For every athlete at the games, there's a huge team around them and both the College and the boat club were a huge part of that for us. The margins between silver and bronze were so small that every bit of support we've had made a difference."

Brilliant Bronze for Dave

Bioengineering PhD student and Army Captain Dave Henson MBE won a bronze medal in the T42 200m at the Paralympic Games in Rio.

PhD student Dave, who previously completed an MSc at the College, contributed to team GB's record medal rush at the games with a strong finish in the 200m final to join compatriot and gold medallist Richard Whitehead on the podium.

Dave said: "It was tight for the medal – I wasn't convinced I'd got it but I carried that belief all the way with me during the race."

He added: "Balancing a PhD with being



ICBC rowers Zoe Lee and Mel Wilson share their Olympic glory with Professor James Stirling

a full-time athlete has definitely proven quite challenging, but Imperial and the staff in the Department of Bioengineering have been incredibly supportive of my sporting ambitions."

Before joining the College, Dave served in the British Army with the 22 Engineer Regiment. It was during military service in Afghanistan that he was injured by an improvised explosive device (IED). Dave's research focuses on issues faced by amputees and is supervised by Professor Anthony Bull, Head of the Department of Bioengineering.

"Dave is not only an inspiration to his research group colleagues, but also to the whole Department of Bioengineering," Professor Bull said. "He is a successful athlete, PhD student and father, but also contributes far more widely in advocacy and support for others who have been severely injured in conflict.

"We are proud to be associated with Dave Henson and look forward to him returning (with his medal) and spending a little more of his precious time on his research!"

—JON NARCROSS COMMUNICATIONS AND PUBLIC AFFAIRS



Enabling athletes at Rio

British paralympic swimmer Andrew Mullen was propelled to a silver medal at Rio using a starting block aid developed by students at Imperial.

Andrew, who swims the S5 category, has been working with the students over the past few years to develop a number of innovative devices to help him in competition, training, and generally getting around.

He took the starting blocks in the S5 50m Backstroke using a device developed and honed by Imperial students Kathryn Sayer, Andrew Goodhead and Pui Sze Sham, who worked on the project as part of Imperial's summer Undergraduate Research Opportunities Programme (UROP) under the supervision of Dr Ian Radcliffe (Bioengineering).

Backstroke swimming events begin in the water, with competitors resting their submerged feet on a ledge and reaching up to set of bars on the poolside block to achieve a poised position from which they launch backwards into the water. It presents a unique set of challenges to Paralympic athletes.

"Andrew has some grip with his stumps but is not able to reach up to those bars which are quite high on the poolside out of the water," says Dr Radcliffe. "So he started using these luggage straps to wrap around the block then grip on, but they kept breaking. The students came up with this simple but elegant system, using adapted horse riding stirrups, climbing carabiner and reins. Crucially it's easy for Andrew and his coach to set up and adjust."

Andrew has also been involved with Imperial student projects to help with moulded arm paddles for swimming training sessions; a gimbal rig for helping him do squat lifts in the gym; and a pedal-driven wheelchair prototype to help him get around.



obituaries

BEVERLY GRIFFIN

Beverly Griffin, Emeritus Professor of Virology died on 13 June 2016, aged 86. Her friend and colleague, Professor Paul Farrell (Medicine) pays tribute.

Born in 1930 in Louisiana, USA, Beverly was an alumnus of Baylor University, where she gained a Bachelor of Science in 1951. She went on to receive doctorates from the University of Virginia in 1955 and the University of Cambridge in 1958.

In 1968 Beverly began work at the Laboratory of Molecular Biology (LMB) in Cambridge with Fred Sanger, before joining the Imperial Cancer Research Fund (ICRF) laboratories at Lincoln's Inn Fields in 1972. She made the move to the Royal Postgraduate Medical School at Hammersmith Hospital in 1984 to become Professor of Virology, where she worked until her retirement in 1996.

Professor Griffin's most notable achievement at the ICRF was establishing the sequence of the mouse polyomavirus. At its completion in 1980, it was one of the longest pieces of DNA sequenced at 5,293 base pairs.

Beverly's work expanded into the study of the Epstein-Barr virus (EBV) – the causative agent of a number of cancers. Beverly was 'ahead of her time' in many ways.

It was partly a shared interest in EBV research that led Beverly to meet her future husband, the Nobel laureate Tomas Lindahl. He later joined her in London, where he is now an Emeritus Scientist at the Francis Crick Institute.

Beverly was also a great supporter of Professor Elizabeth Molyneux's work treating childhood cancers in sub-Saharan Africa. A particular focus was Burkitt's lymphoma, another condition caused by EBV.

Alongside her own work, Professor Griffin helped train and inspire a new generation of virologists. Those to have worked under her include Dr Alison McBride, head of the DNA Tumor Virus Section at the Laboratory of Viral Diseases in Washington DC, and Professor Dorothy Crawford, who was Robert Irvine Professor of Medical Microbiology at the University of Edinburgh.

She was a very thoughtful, generous and inspiring individual and will be greatly missed.



long service

Staff featured in this column have given many years of service to the College. Staff listed celebrate anniversaries during the period 1 April–21 July 2016. The data are supplied by HR and correct at the time of going to press.

30 years

- Dr Raul Margara, Emeritus Reader in Reproductive Biology, Surgery & Cancer
- Alan Raper, Technician, Physics
- June Woodward, Tuition Fee Administrator, Finance Division
- Dr Fariba Sadri, Senior Lecturer, Computing
- Brendon Maguire, Customer Solutions Lead, ICT
- Professor Michael Kerney, Emeritus Reader, Earth Science and Engineering
- Jacqueline Gardner, Accounts Payable Assistant, Finance Division
- David Fullerton, Functional Business Systems Specialist, ICT

40 years

- Professor Dame Julia Higgins, Senior Research Investigator, Chemical Engineering
- Professor Peter Harrison, Professor of Mathematical Modelling, Computing

50 years

- Professor George Webster, Distinguished Research Fellow, Mechanical Engineering
- Dr John Nolan, Honorary Senior Lecturer, Earth Science and Engineering



SPOTLIGHT

Dame Julia Higgins, Senior Research Investigator, Chemical Engineering
40 years

Polymer scientist Professor Dame Julia Higgins FRS FREng is a Senior Research Investigator in Chemical Engineering, having previously served at Imperial as Dean of the City and Guilds College and Principal of the Faculty of Engineering. Professor Higgins lends her name to the Julia Higgins Medal and Awards, which are awarded annually to recognise individuals and departments that have made a significant contribution to the support of academic women at the College.

Welcome

new starters

Mr Ahmed Abdul, Faculty of Medicine Centre
 Mr Duane Abraham, Catering Services
 Dr Dominic Affron, Chemistry
 Dr Lionel Agostini, Aeronautics
 Mr Aledayo Akiode, Public Health
 Dr Mohammad Al Sad, Medicine
 Mrs Deepthi Alex, ICT
 Mr Demran Ali, Public Health
 Mr Kevin Allain, Computing
 Mr Matthew Alphe, ICT
 Mr Mohammed Al-Saffar, Public Health
 Mr Justin Alsing, Physics
 Mr Samuel Alston, Student Recruitment & Outreach
 Mr Moatasim Amer, Surgery & Cancer
 Mr Georgios Anagnostou, EEE
 Miss Rebecca Andrews, Public Health
 Mr Nas Andriopoulos, ICU
 Dr Napat Angkathanyakul, Medicine
 Miss Abigail Antao, ICT
 Dr Beatriz Antolin Fontes, Clinical Science
 Ms Jane Antony, Surgery & Cancer
 Mr Lef Apostolakis, ICU
 Dr Alyssa Apse, EEE
 Gloria Miss Artaco, Surgery & Cancer
 Mr James Arthurs, School of Professional Development
 Miss Stephanie Ascough, NHLI
 Miss Alex Ashbee, Careers
 Miss Amirah Aslam, Registry
 Mr John Auger, Security Services
 Dr Melina Aulino Campos de Lima, Life Sciences
 Dr Georg Auzinger, Physics
 Dr Sam Azadi, Materials
 Dr Mehrdad Babazadeh, Computing
 Miss Josephine Backhouse, Faculty of Medicine Centre
 Miss Lara Bailey, Residential Services
 Mrs Ellie Baizani, Education Office
 Miss Huda Baldo, Public Health
 Mrs Rajinder Ballman, Medicine
 Mrs Milda Batutiene, Mathematics
 Dr Mustafa Bayazit, Chemistry
 Mr Amr Bayoumy, Medicine
 Miss Hannah Behague, Faculty of Medicine Centre
 Miss Sarah Belfield, Business School
 Mr Malek Belkacemi, Centre for Environmental Policy
 Dr Christophe Bellisario, Physics
 Dr Maria Belmonte Sainz-Ezqueru, Physics
 Miss Stefi Benjamin, Life Sciences
 Dr Patricia Bernal, Life Sciences
 Mr Alex Berwick, HR
 Dr Rajesh Bhargava, Business School
 Dr Gaurav Bhatnani, ESE
 Miss Carla Bleasdale, Residential Services
 Miss Rachel Blythe, ICU
 Dr Adriano Boasso, Medicine
 Dr Esther Boler, Business School
 Ms Layla Bolton Saghdaoui, Surgery & Cancer
 Mr Andrew Bottomley, ICT
 Ms Claire Bower, Business School
 Mr Timothy Bracewell-Milnes, Surgery & Cancer
 Mr Luke Brady, Residential Services
 Miss Danielle Bream, Public Health
 Miss Rebecca Bristow, Surgery & Cancer
 Ms Caroline Brogan, Communications and Public Affairs
 Miss Laura Brown, Registry
 Dr Michael Bruyns-Haylett, Bioengineering
 Mrs Aimee Buirski, Estates Division
 Professor Simone Buitendijk, College Headquarters
 Mr Henry Burridge, Civil and Environmental Engineering
 Mrs Geraldine Butler-Wright, HR
 Dr Alessandro Caboli, Mechanical Engineering
 Do Rosario Caetano, Business School
 Mr Luke Caldwell, Physics
 Mr Owen Cameron, Security Services
 Dr Philip Carter, Surgery & Cancer
 Mr Edgar Carter, Mechanical Engineering
 Dr Bianca Cereser, Surgery & Cancer
 Dr Andrea Cerone, Computing
 Miss Claudia Cervelli, Catering Services
 Mr Georgios Chalivopoulos, Mathematics

Dr Kalipso Chalkidou, Surgery & Cancer
 Dr Liliane Chamas, Surgery & Cancer
 Mr Joseph Chater, Finance
 Mr Robert Chatley, Computing
 Dr Rabiah Chaudhry, Public Health
 Miss Nayab Cheema, ICU
 Dr Kaiying Cheng, Medicine
 Mrs Floria Cheng, Surgery & Cancer
 Dr Matthew Child, Life Sciences
 Dr Konstantinos Christoforidis, Chemical Engineering
 Ms Marie Clement, Library
 Dr Michelangelo Colavita, Medicine
 Ms Hema Collappen, Public Health
 Miss Susannah Colville, Surgery & Cancer
 Miss Alex Compton, ICU
 Dr Megan Coombs, Research Office
 Dr Robert Cooper, Chemistry
 Miss Isabella Cordani, Public Health
 Dr Louise Cowpertwait, Public Health
 Mr James Cox, ICU
 Ms Fala Cramond, Surgery & Cancer
 Miss Emily-Jane Cramphorn, ICU
 Mr Andrew Crane, Finance
 Miss Suzanne Creasey, ICT
 Miss Ellen Crick, Surgery & Cancer
 Mr Johann-Philipp Crusius, ESE
 Miss Natasha Cunningham, Education Office
 Mr Derek Cutler, Surgery & Cancer
 Miss Michaela Dacosta, Estates Division
 Mrs Christelle Dalle, Catering Services
 Miss Katie Dallison, Careers
 Ms Sorina Damsa, Medicine
 Miss Alessandra D'Angelo, Surgery & Cancer
 Mr Peter Dawson, EEE
 Mrs Aline De Almeida Drum Giazzon, Catering Services
 Ms Monica De Brito Figueiredo, Medicine
 Dr Rita De Campos Pires Santos E Sousa, Surgery & Cancer
 Mr Alexandre De Figueiredo, Mathematics
 Miss Marianne De la Roche, Medicine
 Miss Flavia de Simone, Civil and Environmental Engineering
 Mr Nicholas Dean, Medicine
 Dr Abbas Dehghan, Public Health
 Miss Raquel Del Castillo Gaitan, EYEC
 Dr Fani Deligianni, Computing
 Mrs Lindsay Dewa, Surgery & Cancer
 Dr Alihusein Dhankot, Public Health
 Dr Omella Di Pietro, Chemistry
 Dr Mamadou Diallo, Bioengineering
 Miss Maria Dias Inverno, Centre for Environmental Policy
 Dr Maria Dickinson, Life Sciences (Silwood Park)
 Mr Michael Dobbin, Faculty of Medicine Centre
 Dr Evgeniy Donchev, Materials
 Santos Correia Dos, Surgery & Cancer
 Dr Laura Downey, Surgery & Cancer
 Miss Helena Dwycka, Security Services
 Miss Bunmi Ekundayo, Communications and Public Affairs
 Ms Anissa Elifakir, Business School
 Dr Huw Ellis, NHLI
 Dr Mohamed Elmikaty, EEE
 Mr Wahid Elyasogami, Computing
 Miss Catherine England, Faculty of Medicine Centre
 Miss Lizzie Eustace, Campus Services
 Mrs Stephanie Evans, Public Health
 Mr Sean Fanning, Estates Division
 Mr Cheng Feng, ISST
 Dr Enzo Ferrante, Computing
 Mr Jose Morais Ferreira Rodrigues De Morais, Chemical Engineering
 Miss Andreia Ferreira, Business School
 Dr Trevor Ferris, Surgery & Cancer
 Dr Jahn Firth, NHLI
 Mr Colin Foley, Civil and Environmental Engineering
 Miss Alice Francis, NHLI
 Ms Sue Francis, Estates Division
 Mrs Julie Fraser, Campus Services
 Dr Francis Froborg, Physics
 Dr Hailey Gahlon, Medicine
 Mr Brian Gallagher, HR
 Mrs Niketha Gamage-Watson, Grantham Institute
 Miss Cova Garcia Rodriguez, College Headquarters
 Mr Richard Gasikin, Faculty of Medicine Centre
 Miss Christina Gatsiou, Chemical Engineering
 Dr Mary Gaughan, Business School
 Mr Markos Georgopoulos, Computing
 Mr Mean Ghim, Bioengineering

Ms Elena Ghirardello, Medicine
 Mr Ritobrata Ghose, Life Sciences
 Ms Alex Gibbs, Advancement
 Miss Sophie Gilbert, Life Sciences
 Dr Alyssa Gilmore, Medicine
 Ms Tracey Glenister, Bioengineering
 Dr Camilla Godlee, Medicine
 Mr Filomeno Gomes, Catering Services
 Miss Catherine Graham, Materials
 Dr Laszlo Grand, EEE
 Dr Rylie Green, Bioengineering
 Miss Anna Greenberg, EYEC
 Mr James Griffin, Faculty of Medicine Centre
 Ms Jennifer Griffin, Medicine
 Ms Anna-Marie Griffiths, Faculty of Medicine Centre
 Mr Andreas Gross, Mathematics
 Ms Agnieszka Grzelak, Catering Services
 Dr Yunjie Gu, EEE
 Dr Juan Guzman Inigo, Mechanical Engineering
 Dr Silvia Haase, Life Sciences
 Mr Matthew Hadrill, School of Professional Development
 Mr Simon Hall, Library
 Ms Adele Hamid, School of Professional Development
 Ms Camille Hamilton-Villemer, Advancement
 Mr Andrew Hammond, Life Sciences
 Mr John Harrison, Institute of Global Health
 Miss Rachel Hart, Residential Services
 Ms Ceara Hart, Business School
 Mr Luke Hayward, HR
 Dr Lucy Heinemann, Surgery & Cancer
 Dr Ola Hekselman, Materials
 Dr Alexandru Hening, Mathematics
 Mr Raymond Henry, Estates Division
 Dr Laurie Higbed, Medicine
 Dr Stuart Higgins, Materials
 Mr Peter Hill, Medicine
 Dr Thomas Hills, Chemical Engineering
 Mrs Susie Hilton Knox, Central Secretariat
 Miss Jessica Hobby, Sport and Leisure
 Miss Juliet Holmes, NHLI
 Dr Tom Hooper, Chemistry
 Miss Lelitu Hottoso, Catering Services
 Mr Gregory Hunt, Physics
 Ms Elizabeth Huntley, Centre for Environmental Policy
 Dr Harsha Hutruridurga Ramaiah, Mathematics
 Mr Paul Huxley, School of Professional Development
 Mr Ali Ibrahim, Security Services
 Miss Mai Idris, Surgery & Cancer
 Dr James Iles, Public Health
 Mr Kevin Ilett, Faculty of Medicine Centre
 Dr Andrew Innes, Medicine
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 Mr Justinas Slikas, Life Sciences
 Mr Matthew Smith, Medicine
 Ms Penny Sparkes, Mechanical Engineering
 Dr Sina Stapelfeldt, Mechanical Engineering
 Dr Julia Stawarz, Physics

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 Mr Ou Zhao, Civil and Environmental Engineering
 Dr Shuangyong Zhou, Physics
 Mr Luai Zhong, Computing
 Mr Karl Zimmermann, Medicine
 Dr Limor Zwi Dantsis, Materials

moving in. moving on.

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

Mr William Abbott, Bioengineering
 Dr Edo Abraham, Civil and Environmental Engineering
 Mr Mohammad Adabi, Materials
 Mr Kyrillos-Fokion Adesina-Georgiadis, Surgery & Cancer
 Dr Vincentius Adi, Chemical Engineering
 Mr Solomon Adjikloe, Medicine
 Dr Muhammad Afzaal, Chemical Engineering
 Mrs Pamela Agar, Communications and Public Affairs (16 years)
 Dr Blerina Ahmetaj-Shala, NHLI
 Dr Katja Ahoniemi, Business School
 Ms Sheila Akinlabi, Public Health
 Miss Zen Alaeastane, Surgery & Cancer
 Dr Mina-Olga Aletari, Surgery & Cancer (5 years)
 Dr Nicolas Alferez, Mechanical Engineering
 Mr Felipe Alves Portela, Aeronautics
 Dr Rachel Amouroux, Clinical Science (5 years)
 Professor Anand Anandalingam, Business School
 Dr Carmelo Andujar Fernandez, Life Sciences (Silwood Park)
 Miss Pearl Anteh, Campus Services
 Mr Ryan Armstrong, Security Services
 Mr James Arthurs, School of Professional Development
 Dr Christina Atchison, Public Health
 Miss Talia Augustine, Residential Services
 Dr Ali Awan, Bioengineering
 Mr Adarsh Babber, Surgery & Cancer
 Mr Salur Basbug, Aeronautics
 Dr Ana Batista Gomes, Life Sciences
 Ms Katherine Bayliss, Strategic Planning (5 years)
 Dr Eleni Bazigou, Bioengineering (5 years)
 Mrs Charlotte Beard, Estates Division (8 years)
 Miss Sarah Beardon, Public Health
 Miss Diana Begum, Faculty of Natural Sciences
 Miss Halima Begum, Bioengineering
 Miss Sofia Bekou, Physics
 Dr Francesco Belardinelli, Computing
 Miss Lucy Bell, NHLI
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 Mr Henry Bennie, Faculty of Medicine Centre
 Dr Ivan Beretta, EEE
 Dr Emma Bergin, Civil and Environmental Engineering
 Dr Adam Bernard, Surgery & Cancer
 Dr Tomasz Bernots, Mathematics
 Dr Clare Berry, Public Health
 Ms Nathalie Bessiere, NHLI
 Mr Arafat Bhalilzida, Chemical Engineering
 Dr Farid Bigari, Mechanical Engineering (7 years)
 Dr Hannah Blanchford, Medicine
 Ms Jennifer Blood, School of Professional Development
 Dr Adriano Boasso, Medicine (8 years)
 Dr Julie Borgel, Clinical Science
 Dr Maedeh Borhani, Bioengineering
 Ms Francesca Bottacchi, Physics
 Dr Pierre Boufflet, Chemistry
 Dr Kristelle Bougot-Robin, Chemistry
 Miss Sophie Bowler, Medicine
 Dr Lisa Bowman, Medicine
 Mr Damion Box, Chemistry
 Dr Sophie Bozorgi, Mechanical Engineering
 Mrs Sue Braham, Surgery & Cancer (6 years)
 Dr Geraldine Brennan, Grantham Institute
 Miss Laura Brett, NHLI
 Dr Carlos Bricio Garberi, Bioengineering
 Dr Gareth Brown, Centre for Environmental Policy (5 years)
 Dr Neil Browning, Public Health
 Dr Susann Bruche, NHLI
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 Mr James Budzak, Life Sciences
 Dr Stefano Buoso, Aeronautics
 Dr Jordi Bures Amat, Chemistry
 Ms Susan Burnett, Surgery & Cancer
 Ms Rachel Burrell-Murphy, Education Office

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 Dr Paola Campoagnolo, Materials
 Dr Leo Carlin, NHLI
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 Dr Abby Casey, Chemistry
 Dr Emilie Calet, Surgery & Cancer
 Dr Jason Chang, Bioengineering
 Mr Neil Charlott, Public Health
 Miss Rosina Chaudhry, Computing
 Miss Hannah Cheeseman, Medicine (9 years)
 Dr Zhangwei Chen, ESE
 Dr Lijie Cheng, Chemistry
 Dr Ciro Chiappini, Materials
 Mr Tiberiu Chis, Computing
 Dr Kok Chooi, Bioengineering
 Miss Daniela Ciccarello, Registry
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 Ms Marilyn Clarke, Library (20 years)
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 Mr Sylvester Colaco, Sport and Leisure
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 Dr Carlos Correia Braga, Chemical Engineering
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 Dr Doni Daniel, Materials (8 years)
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 Mrs Orquidea De Castro Ribeiro, Life Sciences
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 Dr Giovanna De Palo, Life Sciences
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 Dr Laura del Nido Varo, Public Health
 Dr Andree Delahaye-Duriez, Clinical Science
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 Dr Amutha Devaraj, Materials
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 Dr Danielle D'Lima, Surgery & Cancer (5 years)
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 Mrs Mulenga Duodu, Faculty of Medicine Centre
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 Mr Magno Ferrao, Sport and Leisure
 Dr Michael Field, Mathematics

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 Dr Paul Fossati, Materials
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 Miss Ying Fu, School of Professional Development
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 Ms Stefania Garasto, Bioengineering
 Dr Jonay Garcia-Luis, Clinical Science
 Dr Jennifer Garden, Chemistry
 Dr Benjamin Garfield, NHLI
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 Mr John Geeson, Business School
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 Dr Mario Ghossoub, Business School
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 Dr Amy Gilligan, ESE
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 Ms Joanne Glass, Registry
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 Dr Benat Gurrutxaga Lerma, Mechanical Engineering
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 Dr Maud Jenart, Chemistry
 Dr David Jennings, Physics
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 Dr Britta Jewell, Public Health (6 years)
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 Mr Stephen Johnson, Mechanical Engineering (14 years)
 Mr Graeme Johnston, Reactor Centre (12 years)
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 Mr Irfan Khan, HR
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 Ms Yasmin Mohseni, NHLI
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 Dr Andrew Morley-Smith, NHLI
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 Dr Aurelie Mousnier, NHLI (9 years)
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 Mr Satheesh Mupparaju, ICT
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 Dr Eduardo Oliver Perez, Medicine (5 years)
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 Dr Nisha Patel, Surgery & Cancer
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 Dr Sara Pauperio Ribeirinho Machado, Public Health
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 Professor Peter Pearson, Centre for Environmental Policy
 Dr Bjorn Penning, Physics
 Dr Ruth Peters, Public Health (18 years)
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 Miss Charlotte Phillips, Medicine
 Miss Suzanne Picot, Public Health
 Dr Oliver Pike, Physics
 Dr Dan Plant, Mechanical Engineering
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 Dr Balaji Purushothaman, Chemistry
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 Dr Kamila Pytel, NHLI
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 Dr Liam Rasch, Medicine
 Mr Paul Ratcliffe, Faculty of Medicine Centre (9 years)
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 Mrs Simranjit Rayat, Residential Services
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 Dr Benjamin Robinson, Bioengineering
 Mr Eduardo Rodriguez Lopez, Aeronautics

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 Mr Ewan Ross, Medicine
 Dr Andrea Ruecker, Life Sciences
 Dr Pakatip Ruernaroengsak, Computing
 Ms Wendy Salas, Sport and Leisure
 Dr Saeed Salimzadeh, ESE
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 Dr Sheila Samsatli, Chemical Engineering
 Mr Chun Yin San, ICU
 Miss Lucinda Sandon-Allum, ICU
 Mr Sergio Santos, Graduate School
 Ms Mariem Sarghini, Medicine
 Ms Amber Sarma, Faculty of Engineering
 Dr Muge Sarper, Bioengineering
 Dr Gunnar Schroeder, Life Sciences (8 years)
 Mr Renaud Schuck, Bioengineering
 Dr Christopher Schuster, Medicine
 Dr Wolfgang Schuster, Civil and Environmental Engineering (11 years)
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 Dr Rajiv Shah, Surgery & Cancer
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 Dr Luc St-Pierre, Aeronautics
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 Dr Marc Sturrock, Life Sciences
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 Mr Nikitas Thomareis, Aeronautics
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 Mr Joel Thomas, HR
 Mr Joel Thomson, Computing
 Miss Phoebe Tickell, Life Sciences
 Dr Raul Torres, Clinical Science
 Miss Alexia Toufexi, Life Sciences
 Dr Marie Toussaint, NHLI
 Ms Amanda Townsend, Registry
 Dr Vincenzo Trovato, EEE
 Dr Angelos Tsoulakas, Business School
 Dr Claire Turner, Medicine (7 years)
 Dr Hugo Turner, Public Health
 Dr Arwen Tyler, Chemistry
 Professor Peter Tyrer, Medicine (8 years)
 Miss Fatima Valencia Agudo, Medicine
 Miss Amy Valentine, Civil and Environmental Engineering
 Dr Isabel Van De Keere, Faculty of Engineering
 Dr Sietsche van der Linde, Life Sciences (Silwood Park)
 Ms Gayle Verdi, School of Professional Development

moving in. moving on.

Dr Nikhil Vergis, Surgery & Cancer
 Dr Brian Vermeire, Aeronautics
 Mrs Trupti Vickers, Centre for Environmental Policy
 Ms Susan Vickers, Library (8 years)
 Miss Rita Vieira, Public Health (5 years)
 Dr Georgios Vourliotakis, Mechanical Engineering
 Dr Zheng Wang, EEE
 Mr Weikun Wang, Computing
 Miss Jennie Watson, ICU
 Miss Julia Way, Careers
 Mr Yoni Weiner, Chemistry
 Dr Claire Weston, Chemistry
 Ms Ana Wheelock Zalaquett, Business School
 Dr Nicola Whiffin, NHLI
 Mr Gerard White, ICT
 Dr Anisha Wijeyesekera, Surgery & Cancer (7 years)
 Dr Annika Wilhelm, Surgery & Cancer
 Mr Jimmy Williams, HR
 Professor Charlotte Williams, Chemistry (13 years)
 Dr Gillian Wills, Medicine
 Mr Bjorn Wit, Physics
 Dr Rachel Wodarski, Surgery & Cancer
 Ms Chi-Tung Wong, Life Sciences
 Mr James Woodward, ICT
 Mrs Charlotte Woodward, ICT
 Dr Anne Wozencraft, International Relations Office
 Dr Dionysios Xenos, Chemical Engineering
 Dr Junfeng Yang, Chemical Engineering
 Ms SunInn Yun, School of Professional Development
 Dr Ivan Zadrazil, Chemical Engineering (5 years)
 Mrs Vanessa Zajdlc, NHLI
 Ms Irina Zalivina, NHLI (8 years)
 Dr Fessehay Zemichael, Chemical Engineering (10 years)
 Dr Nan Zhang, Life Sciences (5 years)
 Dr Liang Zhao, Computing
 Dr Qiyan Zhao, Life Sciences
 Mr Shaokai Zheng, Aeronautics
 Ms Jinping Zheng, Computing
 Mr Ilies Zidane, Mathematics
 Ms Nikola Zidkova, Catering Services
 Dr Nicholas Zufelt, Mathematics
 Dr Claudio Zuliani, EEE

Death in service

Emeritus Professor Tom Kibble, Physics (17 years)

Retirement

Mr Timothy Ashton, Estates Division (16 years)
 Professor David Chadwick, Chemical Engineering (43 years)
 Dr Robert Childs, Medicine (9 years)
 Dr Roy Clements, School of Professional Development (15 years)
 Mr Leslie Doran, Estates Division (14 years)
 Mrs Sandra Griffiths, Public Health
 Mr Christopher Howard, Chemistry (37 years)
 Professor Russell Lande, Life Sciences (Silwood Park) (9 years)
 Professor John Laycock, Medicine
 Dr Janice Main, Surgery & Cancer (27 years)
 Mr Ken Miller, Surgery & Cancer (8 years)
 Mrs Alice Powell, Physics (19 years)
 Dr Tom Tate, EEE (32 years)

moving in. moving on.



17 OCTOBER, 17.30

A periodic table of shapes

Fano varieties are basic building blocks in geometry. They are the “atomic pieces” of mathematical shapes, which can be assembled into more complex shapes in many different ways. In his inaugural lecture Professor Tom Coates will describe this work, touching on its applications in cryptography, scientific

computing and physics, where it could potentially answer questions about the shape of spacetime. The lecture will also include an exhibition of the work of artist Gemma Anderson, who has given these strikingly beautiful geometries visual and physical form.



3 NOVEMBER, 17.00

Imperial Fringe: Criminal Investigations

Explore how science and engineering could aid the pursuit of justice and help uphold the rule of law. The second Imperial Fringe of the year will investigate Imperial research into crime, its causes, solutions and prevention. The evening

will include contributions from Business school researchers investigating insider fraud, toxicologists explaining their procedures and computing teams working with the NCA to improve evidence collection and logging

take note

Evening classes

Enrolment is open for evening classes run by the Centre for Languages, Culture and Communication with subject options including languages and a variety of science, arts and humanities courses. Classes begin on 17 October 2016 and are open to all. Discounted rates are available for staff and students and bookings made before 1 October benefit from an extra “early bird” discount.

See: bit.ly/life-learning



06 OCTOBER, 08.30

The future of business. Is small the next big?

An expert panel asks will the future belong to small businesses, large organisations or a new disruptive hybrid?

11 OCTOBER, 19.00

Our bizarre future of Bitcoins, Blockchains and Smart Contracts

Professor William Knottenbelt explores the potential for Bitcoins, Blockchains and Smart Contracts to revolutionise the way we live, work and do business.



12 OCTOBER, 18.00

Tools for success

An Imperial Business School panel debate on future trends for FinTech women.



17 OCTOBER, 18.00

An evening with Professor Stephen Hawking

Professor Stephen Hawking presents Quantum Black Holes, rescheduled from March 2016.

18 OCTOBER, 18.00

How do we grow from here? Towards sustainable food production

Join us to discuss with experts the challenge of feeding the world without costing the planet.



19 OCTOBER, 17.30

Choral Evensong with Imperial College Chamber Choir

Whatever your faith tradition, or world view, you are welcome to enjoy the beautiful space of Holy Trinity and let yourself be surrounded by glorious music.

19 OCTOBER, 14.00

Come rain or come shine

A Royal Meteorological Society National Meeting discusses improvements in understanding and predicting convective storms.



20 OCTOBER, 17.30

A risky ride on natural resources – where do we go?

View the future of minerals and resource exploitation through the lens of sustainability at this

Department of Earth Sciences and Engineering inaugural lecture.

Imperial College London

Who's looking at your files?

Stop others from reading your files without permission. Encrypting data makes it unreadable without a secret digital key.

What to do:

- You should encrypt all sensitive information before storing or sharing
- Use College's recommended file storage to save information (H: drive, group space, OneDrive for Business)
- Visit the Be Secure website for storage options and encryption advice

It's everyone's responsibility to be secure.
 For more information visit www.imperial.ac.uk/be-secure

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