



## It's a family affair

New Professor and sons  
celebrate Commemoration Day

 CENTRE PAGES



**NEW DEPARTMENT OF  
LIFE SCIENCES**  
Exciting times ahead  
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**ELSIE WIDDOWSON  
FELLOWSHIPS  
EXTENDED**  
Maternity scheme  
doubled  
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100 years of living science

# 100

## in brief

### New Tenants for Wye College Farm

New tenants for Wye College Farm have been announced by land and property consultants Savills, acting on Imperial's behalf. The tenants, who started their 10-year tenancies on 29 September 2007, include two former Wye College students and a former employee. Kevin Attwood, who studied agriculture at Wye, is farming around 655 acres of land and buildings, and Martin Mackey, who gained a Master's degree in Sustainable Agriculture from Wye, is leasing 104 acres of farmland and a machinery workshop. Carrie Jarvis, former College Farm Secretary, will, in partnership with *The Wooden Spoon*, provide a DIY livery service from the Equine Unit, renamed The Old College Yard.

### Management of Wye Campus

Management changes have been agreed at Wye Campus following the transfer of the Applied Business Management (ABM) course to the University of Kent. Paddy Jackman, Director of Commercial Services, becomes responsible for overseeing support services for Imperial activities at Wye—a role previously undertaken by the Faculty of Natural Sciences. The Faculty of Natural Sciences will continue to be responsible for academic oversight of the delivery of the ABM course for students registered with Imperial.

### Visiting Harvard Professorship for Naomi Chayen

Naomi Chayen, Professor of Biomedical Sciences (SORA), has been appointed Visiting Professor of Pathology at Harvard Medical School. Professor Chayen is a world authority on protein crystallisation and is currently President of the International Organisation for Biological Crystallisation. Her new Harvard role will involve research, consultancy and teaching on crystallisation. She said: "I am tremendously honoured by this appointment and hope it will result in a number of new joint projects involving research teams from Harvard and Imperial."

### Imperial engineers recognised

The Faculty of Engineering was recognised by the Institution of Engineering Technology (IET) for 25 years of continuous accreditation. Head of the Faculty, Professor John Wood, accepted a wall plaque on behalf of the Faculty. Commenting on the importance of IET accreditation he said: "It is a testament to the Faculty that it has continually maintained the IET accreditation process for as long as it has been in existence. This acknowledgment reinforces Imperial's commitment to educating the next generation of world class engineers." The IET is one of the world's leading professional societies for the engineering and technology community.



## New vision for European collaboration against climate change

**Developing new green technologies to tackle climate change was the focus of a major international one-day conference held in London's famous 'gherkin' building last month. The Sharing the Vision event, which focused on collaborations between the UK and Germany, was attended by representatives from the College's Grantham Institute for Climate Change, the Energy and Environment Office, and Imperial Innovations.**

Sharing the Vision focused on the announcement of Germany's new high tech strategy on climate security. The strategy sets out an integrated approach to climate security, bringing research, both basic and

applied, business and politics together to tackle the challenge.

A panel discussion took place led by seven leading figures from the worlds of science, technology and industry, including David Evans, the Director of Innovation at the British government's Department for Innovation, Universities and Skills; Christoph Huss, Senior Vice-President for science, traffic and vehicle regulations at the BMW group; and Susan Searle, Chief Executive of Imperial Innovations. The subject of the discussion was how to support a high tech revolution in order to achieve Europe's goals in tackling climate change.

Dr Simon Buckle, Director of Climate Change Policy at the Grantham Institute, emphasised the importance of this event, saying: "Making the transition to a low carbon economy is absolutely critical and this event was a welcome contribution to the debate on how we make that happen."

— DANIELLE REEVES, COMMUNICATIONS



Imperial College  
London

100 years of living science

100

## Serving up gripping stories

Which Nobel laureate and Imperial professor took his Nobel prize money and built a villa in Italy complete with table tennis—his favourite form of relaxation? Find the answer by visiting the online Centenary website and timeline.

Bounce around 100 years of Imperial College memories and get a handle on our vast history by flicking through stories, videos and photos.



[www.imperial.ac.uk/Centenary](http://www.imperial.ac.uk/Centenary)

## New Pro Rector for Commercial Affairs announced



**Professor Nagy Habib, a liver surgeon and academic entrepreneur, has been appointed Pro Rector for Commercial Affairs, in succession to Dr Tidu Maini.**

Professor Habib's role is to develop opportunities for the commercialisation of research and raise the profile of the College internationally. He takes up his role on 1 November and, reporting to the Rector, will be a member of the College's Management Board and the Strategic Research Committee, chaired by Professor Sir Peter Knight.

Professor Habib is currently Head of the Department of Biosurgery and Surgical Technology in the Faculty of Medicine, and Director of the Liver, Pancreatic and Biliary clinical service in Imperial College Healthcare NHS Trust.

"My remit is to encourage scientists across the College to think about commercialising their ideas, and for us to find industrial backing for them, as well as to cut the red tape that slows down the research progress," said Professor Habib.

"My own career has been about combining medical care, with biomedical engineering, scientific research and entrepreneurship. I've spent 30 years as a clinical scientist looking after patients and at the same time thinking in a scientific way to

help sort out clinical problems."

As an academic entrepreneur Professor Habib has developed several devices that are used in surgery, endoscopy and interventional radiology, through collaboration with colleagues in the Institute for Biomedical Engineering. He is also conducting a translational research programme in stem cell and gene therapy in the Trust.

His device, which helps surgeons cut out liver tumours whilst greatly reducing operative bleeding, has been used on over 15,000 patients in the last two years, and over 30% of liver operations in the USA are today carried out using it. The company EmCision, spun out by

Imperial Innovations, has taken this technology and a number of others devices to market.

He said: "What makes this Pro Rector job so interesting is to work with colleagues in different fields right across the College and across faculties.

"I'm excited to be working with the engineers on sustainable energy issues and with the scientists on climate change, and it's refreshing to talk with the team leading College efforts in drug discovery, both in the developed world and in Africa.

"I'm passionate about it and it's a privilege to be in a position to contribute" he added.

Business Development Services, the Research Office, the Energy and Environment Office and the Drug Discovery Programme will all report to the new Pro Rector.

Professor Habib joins Pro Rectors Mary Ritter and Julia Buckingham whose portfolios encompass international academic responsibilities and education respectively.

— TOM MILLER, COMMUNICATIONS

*"My remit is to encourage scientists across the College to think about commercialising their ideas, and for us to find industrial backing for them"*

## Transatlantic research link launched by science minister

**Scientists in London are able to use and manipulate, in real-time, leading multi-million dollar scientific instruments and technology in the USA, following the official launch of the Global Lab at the College last month. The launch was attended by Ian Pearson, Minister of State for Science and Innovation, Sir Keith O'Nions, Director General of Science and Innovation, Department for Innovation, Universities and Skills, and Dr Thom Mason, Director of Oak Ridge National Laboratory, Tennessee, USA.**

The Global Lab has been established as part of the AtlanTICC Alliance, a sustainable energy research consortium comprising Imperial, the Georgia Institute of Technology in Atlanta, USA, and the Oak Ridge National Laboratory. The AtlanTICC Alliance was established four years ago by the UK government's Office of Science and Innovation with part of a £1.5 million grant to support research collaborations between Imperial and leading US research organisations on energy sources and the treatment of cancer.

Imperial's Dr Tariq Ali, Director of the AtlanTICC Alliance, said: "The Global Lab link will be an invaluable tool for scientists from all three institutions involved in the Alliance. Remote use of state-of-the-art apparatus will mean that our scientists can share ideas, experiments and data towards developing new 'green' fuels and energy alternatives without the need for costly and environmentally damaging long haul international flights."

The Global Lab links together laboratories in the UK and the US via a network, the Lambda Rail, running across the Atlantic seabed. The Lambda Rail's low latency and high bandwidth means that it can move vast amounts of data virtually instantaneously across thousands of miles.

As an example of the Global Lab in action, the Minister controlled and manipulated, from London, one of the world's leading electron microscopes at Oak Ridge, the JEOL 2200FS Aberration Corrected Electron Microscope.

— DANIELLE REEVES, COMMUNICATIONS

► To read the full story, visit: [www.imperial.ac.uk/aboutimperial/news](http://www.imperial.ac.uk/aboutimperial/news)



# media mentions

—COLIN SMITH, COMMUNICATIONS

CHANNEL 4 NEWS ▶ 22 OCTOBER

## It's life, but not as we know it

Global warming and drug-resistant super-bugs could be tackled via synthetic biology, said Craig Venter, the American genetics pioneer and new Imperial honorary graduate, when interviewed by Channel Four News. Professor Richard Kitney (Bioengineering), who also works in the field of synthetic biology, added: "We are on the cusp of the third industrial revolution...the industries of the future will be biologically based."

Professor Paul Freemont (Life Sciences) explained that synthetic biology is the molecular equivalent of: "taking a jumbo jet apart and putting it in a big hangar and then saying: how do we reconstruct that?"



BBC NEWS ▶ 23 OCTOBER

## Muscular dystrophy trial to start



A 'molecular patch' injected into the body, targeting the faulty gene on the X chromosome that causes muscular dystrophy in boys is about to go on trial in the UK, according to a report by BBC news. When interviewed about this world first, lead researcher Professor Francesco Muntoni (Paediatrics) said: "It will be truly

life-changing, and life-extending, for these people. Maybe this will not be a complete cure, but it could definitely buy a lot of time for these children."

THE OBSERVER ▶ 14 OCTOBER

## New roads needed

Thousands of miles of new roads will have to be built by the government to cope with bottlenecks, population growth and new house-building targets, *The Observer* reported, following the release of an RAC report. When asked for a comment by *The Observer*, Professor Stephen Glaister (Centre for Transport Studies) said: "If any future government wants to think carefully about the needs of the population over the next 30 years, it must give consideration to a substantial programme of strategic road building."



FINANCIAL TIMES ▶ 7 OCTOBER

## Northern Rock's failure raises issues for accountancy

Whilst the implications for management and regulation have been given great attention following the widely reported run on Northern Rock, the implications for accounting have had no attention at all, explained Professor Paul Klumpes (Tanaka Business School) in a letter to the *Financial Times*. He wrote: "The sooner that banks...reveal the sensitivity of their risk...the sooner that capital markets will better understand the full risk dimensions underlying these activities."

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Imperial College Healthcare **NHS**  
NHS Trust

## NEWS

### Trust hospitals get clean bill of health

The high quality of health services across Imperial College Healthcare NHS Trust has been recognised in the 2007 Annual Health Check.

Both former trusts—Hammersmith Hospitals and St Mary's which merged on 1 October—were awarded a 'good' score for their quality of services. In the use of resources category, which looks at how the organisations manage their finances, both trusts improved on last year's ratings, with St Mary's moving up to 'good' from 'fair' and Hammersmith Hospitals to 'fair' from 'weak'.

The Annual Health Check, introduced last year, is the most comprehensive rating system used to measure NHS trusts, and includes performance scores in 44 areas, including safety, food and hygiene.

Both former organisations met all core standards and existing national targets and received a 'good' score for meeting new national targets. Hammersmith Hospitals met all assessments relating to safety and cleanliness, standard of care, and dignity and respect, and met its target for year-on-year reductions in MRSA. St Mary's received a 'good' score for its diagnostic services, which have some of the lowest waiting times in the country for endoscopy and the highest level of accreditation for pathology. It also received a good score for admission to hospital, medicines management, and services for children in hospital, but it failed to achieve compliance with its MRSA target.

Professor Stephen Smith, Principal of the Faculty of Medicine and Chief Executive of Imperial College Healthcare NHS Trust, said: "This assessment proves that health services provided at our hospitals are of a consistently high standard and continue to improve. As we work together as a single organisation, our goal is to receive the very highest rating that reflects our world-class services."

From next year, the data for the hospitals in the new Trust will be combined to produce a single set of ratings.

—CYMBELINE MOORE, IMPERIAL COLLEGE HEALTHCARE NHS TRUST

▶ For the full reports visit: [www.healthcarecommission.org.uk](http://www.healthcarecommission.org.uk)

### Sir Richard Sykes appointed non-exec director

Imperial's Rector has been appointed as a non-executive director of the new board of the Trust.

Lord Tugendhat, Chairman, welcomed the appointment: "We are privileged to benefit from Sir Richard's wealth of experience, which adds further strength to our talented group of non-executive directors."

Sir Richard joins other non-executive directors, Baroness Joan Hanham, Jeremy Isaacs, Sir Thomas Legg and Ellen Schroder.



# New Department of Life Sciences



The start of this academic year has seen the creation of a new Department of Life Sciences, which brings together under one umbrella the existing Divisions of Biology, Molecular Biosciences, and Cell and Molecular Biology. Communications' Danielle Reeves went to find out more...

Professor Ian Owens (Biology) has been appointed head of the new department, leading a management team from the three constituent divisions. The existing divisions will retain their individual identity and many aspects of day-to-day management will stay at the divisional level.

Professor Owens explained that bringing together the three divisions will encourage greater collaboration across the entire spectrum of life sciences: "For big strategic initiatives we need to be able to bring together the best teams from across all three divisions, and I think this new set-up will better facilitate these kind of collaborations, while ensuring that the divisions retain their unique sense of identity and community. There is some really pioneering work being done in all the divisions and this is an exciting time for life sciences at Imperial."

**The Division of Molecular Biosciences**, led by Head of Division Professor Paul Freemont, focuses on understanding at the molecular level how cells function as a system. The Division's work has broad potential applications, including the development of new drugs and therapeutics and new forms of bioenergy.

*"There is some really pioneering work being done in all the divisions and this is an exciting time for life sciences at Imperial"*

Professor Freemont said: "Fundamental research in the life sciences provides the scientific basis on which many new technologies are based, including the development and discovery of new drugs. In the twenty-first century life sciences are undergoing a revolution with the increasing availability of genetic information from many different organisms and plants providing the foundations

for new research areas like personalised medicine and synthetic biology. In collaboration with physical scientists and engineers, life sciences will undoubtedly lead the way in solving some of mankind's greatest problems in energy, health and the environment."

**The Division of Cell and Molecular Biology**, led by Professor Murray Selkirk, focuses on cell biology, with particular interests in neurosciences, the immune system and infectious diseases.

The Division, Professor Selkirk explains, works on fundamental science, which then feeds directly into future clinical research, looking for new treatments, vaccines or drugs for diseases. "Our researchers work to understand the basic biology of pathogens and use models of infection to investigate how they survive and replicate in their hosts. We are working on diseases which are of great concern both here in the UK and in the developing world, including *Clostridium difficile* which is becoming a notorious hospital infection, pathogenic *E. coli*, malaria and other parasites."

**The Division of Biology**, led jointly by Professor Martin Buck and Professor Owens, focuses on ecology and evolution, and plant and microbial sciences. The ecology and evolution part of the Division incorporates the Natural Environment Research Council (NERC) Centre for Population Biology, a world-leading centre for the study of biodiversity and a wide range of ecological issues.

Professor Buck explains the importance of his division's work, saying: "Not all research in the life sciences is directly about mankind – much of the work carried out by our biologists is all about understanding the broader context of the world in which we live, from the molecular level up to the study of the impact of environmental changes at a global scale. At a time when there are more questions being asked than ever before about the natural environment and our impact on it, the Division's work is vital to further our understanding of these complex relationships."

— DANIELLE REEVES, COMMUNICATIONS





## New fungus found at Silwood Park

A species of fungus new to science has been discovered at the Silwood Park Campus, and has been named in its honour. The new species is a non-edible relative of the famous Penny Bun (or Cep, *Boletus edulis*) commonly used in French cuisine.

Professor Mick Crawley (Life Sciences) manages the natural habitats of the Silwood

Park estate. He explained the significance of the discovery: "I suspect that it is unique for a new species to be named after a university campus, and I'm delighted that Silwood Park has been granted this honour... It is entirely fitting that a campus dedicated to the study of biodiversity should have a new species named in its honour."

The new species was found growing in a Poplar grove behind the William Penney halls of residence at Silwood Park by Alan Hills, a leading expert on boletes – the name of this type of fungi. The new finding was described in the journal *Mycological Research* by Alan Hills and his colleagues, in which they named the fungus *Xerocomus silwoodensis*.

— DANIELLE REEVES, COMMUNICATIONS



## New blood pressure treatment stands up

A new treatment for orthostatic or postural hypotension, the drop in blood pressure that some people experience when they stand upright, has been evaluated and found to be effective in a trial by Imperial scientists.

Orthostatic hypotension can occur in many conditions, particularly those where the autonomic nervous system is not working properly, such as Parkinson's disease.

Professor Christopher Mathias (Neurosciences and Mental Health) presented the study results last month at the Joint Meeting of the European Federation of Autonomic Societies and the American Autonomic Society.

The trial found that the new drug raised noradrenaline levels, a neurotransmitter which acts on blood vessels, reducing the fall in blood pressure. The beneficial effects were seen with the first dose, and the drug was found to be well tolerated and safe.

— LAURA GALLAGHER, COMMUNICATIONS



## Ants turn farmer to herd their food

Chemicals on ants' feet tranquilise and subdue colonies of aphids, keeping them close by as a ready source of food, according to new Imperial research published in the journal *Proceedings of the Royal Society B: Biological Sciences* on 10 October.

Lead author Tom Oliver (Life Sciences) explained: "We believe that ants could use the tranquillising

chemicals in their footprints to maintain a populous 'farm' of aphids close to their colony, to provide honeydew on tap. Ants have even been known occasionally to eat some of the aphids themselves, so subduing them in this way is obviously a great way to keep renewable honeydew and prey easily available."

Scientists had previously established that certain types of aphids live in colonies and are used as a food source by a neighbouring colony of ants. The ants have been known to bite the wings off the aphids



in order to stop them from getting away, which would deprive the ants of one of their staple foods: the sugar-rich sticky honeydew that aphids excrete when they eat plants.

The new study shows for the first time that ants' chemical footprints – which are already known to be used by ants to mark out their territory – play a key role in manipulating the aphid colony, and keeping it nearby.

— DANIELLE REEVES, COMMUNICATIONS

## HIV spread most by people with medium levels in blood

People with medium levels of HIV in their blood are likely to contribute most to the spread of the virus, according to new research published in the *Proceedings of the National Academy of Sciences*.

The study found that those with a high viral load are the most infectious group, but their life expectancy is shorter, so they do not contribute the most to the spread of HIV. Viral load is a count of how many viral particles are in a person's blood.

Those with a medium viral load are moderately infectious but remain asymptomatic for a longer period, during which time they can transmit the virus to a number of different partners, and hence contribute most to the epidemic.

Dr Déirdre Hollingsworth (Infectious Disease Epidemiology), one of the authors of the paper, said: "Just being highly infectious isn't enough, you have to live long enough to pass the virus on. This long-term view should inform public health policy."

— LAURA GALLAGHER, COMMUNICATIONS

► For the full versions of these stories visit: [www.imperial.ac.uk/aboutimperial/news](http://www.imperial.ac.uk/aboutimperial/news)



"Just being highly infectious isn't enough, you have to live long enough to pass the virus on."

## Environmental technology turns 30!

Staff, students, alumni and VIP speakers gathered at the College on 19 October for an event to celebrate the 30th anniversary of the College's MSc in Environmental Technology.

Professor Nigel Bell, Director of the MSc, said: "This is a wonderful occasion, and I am delighted to see so many of our 2,300 alumni here. It makes all of us very proud to see them established in such highly successful environmental careers. Over the last 30 years the environment has risen on the agenda of all sectors of employment, and never has there been a greater need for well-trained scientists and managers who can take a holistic

interdisciplinary approach to the resolution of environmental problems."

Hosted by the College's Centre for Environmental Policy, the evening event kicked off with a series of four brief talks on climate change and sustainable development. The talks were delivered by four specially invited speakers: James Cameron of Climate Change Capital, Tom Burke of Rio Tinto, Saleemul Huq from the International Institute for Environment and Development, and Michael Grubb from the Carbon Trust. Following the talks, the panel took questions from the audience which included former Rector Lord Flowers and Rector-Elect Professor Sir Roy Anderson.

A networking dinner and drinks reception followed at which staff and students, past and present, reminisced about their time at Imperial.

—DANIELLE REEVES, COMMUNICATIONS



## Footbridge built in Malawi by student engineers

A new bridge in Malawi is helping local people to collect firewood and patrol against poachers, thanks to five Imperial students.

The project was organised by physics undergraduate Naomi Bessey and geology postgraduate Daniel Carrivick, who were joined by civil engineering undergraduates Harriet Kirk, Li-Teck Lau and Jumana Al-Zubaidi.

The 37-metre suspended footbridge was constructed across the North Rukuru River at Uledi in the north western corner of Nyika National Park. Local people were unable to cross the river

during the wet season and the river split Uledi in two, cutting off half of the village.

A preliminary trip took place last summer to survey the site and make the preparations necessary to lay down the bridge foundations.

During the second trip this summer, 30 people from the local community got involved, helping the team of students collect materials and carry cables across the river. The entire workforce helped raise the bridge's cables into place and fasten them, and specialist high rope equipment was used by the students to fasten adjoining

cables and lay the decking.

To celebrate the completion of the bridge a ceremony was held with the chief of Uledi and the National Park manager attending.

Daniel Carrivick concluded: "It was an amazing experience and something I'm really proud to have been involved with. It was emotional to watch everyone walk over the bridge for the first time, especially when you realised just how much it meant to them."

This expedition was supported by the College's Exploration Board.

—NAOMI WESTON, COMMUNICATIONS

► To find out more about expeditions visit: [www.imperial.ac.uk/expeditions](http://www.imperial.ac.uk/expeditions)

## Awards and honours

### Most cited paper

A research paper produced by Professor George Jackson (Chemical Engineering and Chemical Technology) has been named as one of the journal *Industrial and Engineering Chemistry Research's* most cited papers of the last 30 years. The paper describes the statistical associating fluid theory, developed in 1990, which enables scientists to make precise predictions about the behaviour of liquids such as solutions of polymers.



### Prizes for physicists

Imperial physicists claimed four prizes at the Institute of Physics' annual awards in October, putting the College in first place for number of awards won, tying with UCL. Imperial's winners are Professor Michael Rowan-Robinson, who received the Hoyle Medal and Prize for research into astrophysics, gravitational physics or cosmology; Professor Edward Hinds, who took home the Thomson Medal and Prize for research in atomic or molecular physics; Professor Russell Cowburn, who collected the Paterson Medal and Prize, which is awarded to applied physics researchers early in their careers; and Professor Patrick Gill, who won the Young Medal and Prize for contributions to optical frequency metrology. Imperial alumni Simon Singh and Sougato Bose were also recognised with awards.



### Nicholson named advisor to Chinese Academy

The Chinese Academy of Medical Sciences has appointed Professor Jeremy Nicholson (SORA) as its new International Scientific Advisor. The Academy is focused on advancing China's medical-based science and technology to support innovation and sustainable development.



# Commemoration Day celebrations

On 24 October the Royal Albert Hall hosted Imperial's Commemoration Day ceremonies, the first that

Imperial has celebrated as an independent institution following its withdrawal from the University of London in July this year. The two ceremonies saw the graduation of almost 2,000 students – 90 per cent of last year's undergraduate finalists attended the ceremonies, compared with 82 per cent three years ago. The Rector, congratulating the graduands, called on them to be pioneers of science. He said: "You are the best advocates for it, and while science is still viewed with distrust in some quarters, we need you to go out there and be champions for it."

Honorary Imperial doctorates were also awarded to Lord Browne, former Group Chief Executive Officer of BP, Dr Lisbet Rausing, Senior Research Fellow in the College's Centre for the History of Science, Technology and Medicine, and Dr Craig Venter, a leading scientist in the field of genomic research. See opposite page for more details.

Music on the day was conducted by Richard Dickins, Imperial's Director of Music. To find out more, *Reporter's* Alexandra Platt went to meet him – see page 13 to read the interview.



## It's a family affair

Professor Ray Murray (Physics) and his family had a lot to celebrate on Commemoration Day. Following his recent promotion to Professor in this year's academic promotions exercise, Ray Murray was able to watch from the stage in the Albert Hall as his sons Tim and James graduated. Tim, who was the top student in his year, was awarded an MSci in Biochemistry in the morning ceremony, and James graduated in Medicine in the afternoon. Professor Murray said: "This must be an Imperial first, or at least a very rare occurrence. This has been a very good year for us with my promotion to Professor and now the boys completing their courses. Today was the icing on the cake really. It was fantastic to watch the boys graduate and see all their hard work pay off. I am so proud of them."

► To view a RealPlayer interview of Professor Murray and his sons, visit: [www.imperial.ac.uk/aboutimperial/news](http://www.imperial.ac.uk/aboutimperial/news)

► Photos taken at Commemoration Day are available for all staff and students to view on the Imperial College online image library. Visit: [www.imperial.ac.uk/imagelibrary](http://www.imperial.ac.uk/imagelibrary) and look under Events 2007.



To watch a RealPlayer film of the Rector's speech and to read more about some of Imperial's most recent graduates, visit: [www.imperial.ac.uk/aboutimperial/news](http://www.imperial.ac.uk/aboutimperial/news)



## The Rt Hon. Lord Browne of Madingley

The Right Honourable Lord Browne of Madingley used his position as Chief Executive of BP to champion greener and more sustainable forms of energy, including solar and wind. He made major expansions in the company's renewable power operations, as well as investing in the research and development that underpins it.

In particular, he is a great advocate of the major role engineering plays in tackling pressing national and international issues. As the principal speaker at Imperial's City and Guilds Association annual dinner earlier this year, he spoke eloquently of the need for scientists and engineers to apply their skills creatively to global challenges such as climate change, poverty reduction and health.

Lord Browne joined BP as a university apprentice in 1966, after gaining a first in physics at Cambridge and a Master's degree in business at Stanford. He worked



his way up through the ranks to become BP's Chief Executive in 1995 — making him one of the youngest ever leaders of a FTSE 100 company.

He was knighted for services to industry in 1998, before entering the House of Lords as one of the 'people's peers' in 2001. His life's dedication to science and engineering has also been recognised with the Royal Academy of Engineering's Prince Philip Medal and his appointment to the Presidency of both the Academy and the British Association for the Advancement of Science.

## Dr Lisbet Rausing

The contribution to science and academia made by Dr Lisbet Rausing is a double one. After studying at the University of California, Berkeley, and Harvard University where she also taught for eight years, she won academic distinction as a science historian. She holds the post of Senior Research Fellow at Imperial's Centre for the History of Science, Technology and Medicine, and is the author of two books and a number of scholarly articles, covering issues such as women in Enlightenment science and Nazi medievalist art.

Beyond her own academic achievements, Dr Rausing demonstrates a huge commitment to knowledge and learning overall. She founded the Arcadia Trust in 2001, which in just six years has made grant commitments of around £37 million to encourage advanced research and to preserve fundamental knowledge for future generations. The work of the Trust is particularly focused on the protection of biodiversity and



cultural traditions, and it works with universities, museums and other agencies to promote new collaborations and programmes.

Closer to home Dr Rausing has, as a member of the College's Development Advisory Board, continued to support Imperial students by making substantial donations to the Student Opportunities Fund and the library.

Dr Rausing also serves on a number of other boards and committees, including at the Stockholm School of Economics, and the Harvard Board of Overseers. She is a Fellow of the Linnean Society, the Royal Historical Society and the British Academy.

## Dr J. Craig Venter



A combination of great imagination and great energy has made Dr Craig Venter one of the most recognisable scientists of the twenty-first century. He is widely known for

his headline-hitting research into genomics — his entry into the race to decode the human genome won him a central place at the White House where the first historic results were announced.

He is founder, Chairman and President of the J. Craig Venter Institute, dedicated to making leaps forward in how we use genomics to understand and improve human health and our environment. His work with the Institute on ocean biodiversity

was recognised this year in *Time* magazine's list of the top 100 'People who shape our world'.

Dr Venter gained a Bachelor's degree in biochemistry and a PhD in physiology and pharmacology at the University of California before becoming a Professor at the State University of New York and the Roswell Park Cancer Institute.

In 1984, he moved to the National Institutes of Health campus where he developed Expressed Sequence Tags (ESTs), a revolutionary new strategy for rapid gene discovery. In 1992, Dr Venter founded the Institute for Genomic Research where in 1995 he and his team decoded the genome of a free-living organism, the bacterium *Haemophilus influenzae*, for the first time.

In 1998, Dr Venter founded Celera Genomics to sequence the human genome using new tools and techniques, culminating in the 2001 publication of the human genome in the journal *Science*.

Dr Venter and his team at the Venter Institute were in the news again earlier this month for constructing a synthetic chromosome out of laboratory chemicals, heralding the first new artificial life form on Earth.

## Honorary graduates

Imperial's new honorary graduates are recognised by the College as people of conspicuous merit, who are outstanding in their field or who have given exceptional service to the university.



# Elsie Widdowson Fellowship awards extended

The College's Elsie Widdowson Fellowship awards, which exist to assist female academic staff returning to work following maternity or adoption leave, have been extended and the application process simplified.

The scheme was introduced in 2000 by the College's Academic Opportunities Committee as part of its remit to help remove any barriers that may exist for female academics. The committee suggested that the College institute a more flexible maternity leave scheme that enables a returning academic to concentrate on her research activity.

The awards, which are now for a period of 12 months rather than six, provide half the funding to cover the academic's teaching and/or administration duties upon her return to work. The other half of the costs will be met by the individual's department or division.

Deputy Director of Human Resources Kim Everitt said: "I would encourage female academics to take up the awards. Those who have already done so have found it immensely valuable. There isn't a complicated application process or any post-award requirement to report

research activity undertaken during the fellowship."

The awards, which begin immediately following the individual's return from maternity or adoption leave, are named after Imperial alumnus Dr Elsie Widdowson (1906–2000) who was a major contributor to the study of nutrition.

## How to apply

Academics wishing to apply should approach their Head of Department or Division as early as possible, and no later than two months before the expected onset of maternity or adoption leave, with a brief outline of the planned research activity.

► *For more information visit:*  
[www.imperial.ac.uk/spectrum/hr/hr\\_info/policies/family/elsiewiddowson.htm](http://www.imperial.ac.uk/spectrum/hr/hr_info/policies/family/elsiewiddowson.htm)  
—ALEXANDRA PLATT, COMMUNICATIONS



**Dr Julie McCann** (Computing) received an award after the birth of her son Carter, two years ago. Here she shares her experience: "I didn't know about the Fellowship when I fell pregnant. In fact I only heard about it when Professor Julia King, Principal of the Faculty of Engineering at the time, noticed I was pregnant and told me about it. I'm so glad she did because the support I gained from the fellowship was fantastic. I returned from maternity leave over the summer, so although I had no teaching to do, it was such a relief to not have to contend with my administration work and have the chance to catch up with my research projects. The Research Assessment Exercise covers a finite time and being away for six months to have a baby can leave you a journal down in comparison to your peers. The Fellowship gave me some breathing space. With the extension of the fellowships to a year, female academics who choose to have a family are really on a level playing field with the chaps!"

## Awards for Teaching Excellence



**Professor Milijka Pavlovic** (Civil and Environmental Engineering) and **Professor John Cosgrove** (Earth Science and Engineering) were awarded Imperial College Teaching Fellowships at the morning ceremony of the Commemoration Day celebrations on 24 October.

Recognised as having been most innovative in teaching and assessment and outstanding in the quality and presentation of their teaching, Professors Pavlovic (pictured right) and Cosgrove (pictured with the Rector above) were awarded the fellowships from among the 14 winners of this year's annual Awards for Excellence in Teaching, which were launched in 1994.

Every year, each department is invited to nominate one or more members of their academic staff who have made outstanding contributions to teaching during the year. The Pro Rector for Education, the Deans, the Academic Registrar and the President of Imperial College Union then consider all these nominations and select up to 15 to receive awards.

Speaking on the day of the ceremony, Professor Julia Buckingham, Pro Rector for Education, said: "Imperial College has long had a worldwide reputation for its research, which to some extent may have masked the attention we have always given to teaching. However, the results of the assessments of teaching quality initiated by the higher education funding councils have served to confirm the excellence of our teaching."

► *For more information and a full list of winners, visit:* [www.imperial.ac.uk/registry/information/awardsforexcellence](http://www.imperial.ac.uk/registry/information/awardsforexcellence)



# Working towards a **greener** university

## The challenges

The large amount of research undertaken by the College demands a high level of energy, with some experiments taking place 365 days a year, 24 hours a day. Nick Roalfe, Director of Facilities Management, explained the challenges of reconciling an organisation that needs as much power as Imperial with a mission to be as green as possible: “The College is home to many pieces of electrical equipment, including

NMR machines and PET and MRI scanners, which are vital tools for research, but also power-hungry machines. The Estates Group has undertaken a number of initiatives to solve the dilemma of ensuring that energy-intensive research can continue, but reducing energy consumption as much as possible by making greater use of clean and renewable energies.” Read about some of Imperial’s green initiatives below.

### Green beginnings

All consultants and contractors hired by the College have to sign up to the Technical Policy Statements before they start work. These ensure that all projects adhere to the College’s standards of low energy, low emissions and sustainability.



### Staying cool

- Over 150 individual cooling units have been replaced by a central cooling system increasing energy efficiency.
- Absorption chillers which use waste heat to provide cooling have been installed at the South Kensington Campus. They have low CO<sub>2</sub> emissions and use ozone-friendly refrigerants.



### What’s in your bin?

- Up to 60 per cent of rubbish that ends up in the dustbin could be recycled.
- Up to 50 per cent of waste could be composted.
- The unreleased energy contained in the average dustbin each year could power your TV for 5,000 hours.



### Electricity

The College uses its own ‘private wire’ network to control the voltage of electricity from its substations. Savings in energy, money and CO<sub>2</sub> emissions have been made by reducing the voltage by 5 per cent. An overall saving of about 500 tonnes of CO<sub>2</sub> is expected.

### Renewable energy

Current initiatives in renewable energy focus on the use of biofuels, the combined heat and power plant and borehole water for cooling and/or heating. An example of one such zero carbon engineering solution is the use of deep underground aquifers for cooling, which is proposed for the new block L at the Hammersmith Campus. These aquifers are formed by rainwater percolating through the strata and sitting on an impervious layer around 70–100 metres below ground level. The water is pumped up and through the building and returned via another borehole.

### Recycling

- 556 tonnes of glass recycled per year.
- 98 tonnes of cardboard (the equivalent of 1,666 trees) recycled per year.
- 126 tonnes of paper (the equivalent of 2,142 trees) recycled per year.



### The heat is on

- Steam passes through heat exchangers to create hot water. Plate heat exchangers have replaced traditional models saving about 20 tonnes of CO<sub>2</sub> a year.
- Most of the three kilometers of existing pipe insulation is being replaced. This should lead to savings of 1,500 tonnes of CO<sub>2</sub> emissions a year.
- Imperial has its own combined heat and power plant which operates at up to 80 per cent efficiency.

### Metering

Energy utilities such as gas and electricity are usually measured at the point where they enter the site and the metres used therefore give no information about the exact locations where energy is being consumed. To provide more details, electronic metering is currently being installed for gas, heat, electricity and water services to each building on the South Kensington Campus. The new system will allow costs per building to be identified and energy reduction projects to be focused more accurately.



### So what can I do to help?

While the Estates group are working hard to make Imperial a greener place, it is only half the story. Steve Howe, Director of Building Projects, explained how everyone needs to get involved to make a sustainable change: “Both staff and students can make significant contributions by careful use of resources—for example, by turning off their computer monitors before they go home.” He added: “Staff also need to compromise at times. You can’t demand full air conditioning in the summer and still expect to be green. Somewhere there is an equitable solution and we’re always seeking to find the right balance. We’d be glad to hear any suggestions that people have.”

► For more information or to submit a suggestion, contact [n.roalfe@imperial.ac.uk](mailto:n.roalfe@imperial.ac.uk)

## inventors corner

**Dr Nick Dibb discusses commercialising his research and the support that Imperial has given him.**



Dr Nick Dibb heads a research group at the Institute of Reproductive and Developmental Biology based at the Hammer-smith Campus. His group primarily analyses the function of the FMS and KIT tyrosine kinase receptors in normal and cancerous cells. Kinases are a type of enzyme and are known to regulate cellular pathways. Disregulated kinase activity is a frequent cause of disease,

particularly cancer. Dr Dibb has recently been awarded Proof of Concept funding from Imperial Innovations to develop some novel inhibitors of these receptors for possible treatment of certain cancers or inflammatory diseases.

Having previously had little experience in commercialisation, Dr Dibb has been impressed with the process at Imperial: "Through my work as a London Technology Network (LTN) Business Fellow. I've had a great deal of help from Imperial Innovations. I'm aware that such help is not always available at other London universities."

The Business Fellow scheme is run to train academics from across London and the south east to map the technologies of their peers and act as the main contact for industrialists keen to work with their departmental technologies. Nick discovered academics from some universities did not receive support for commercialisation and often had to deal with matters such as patent screening themselves without any knowledge of the area: "These academics had good ideas but neither the expertise nor time to carry out these processes themselves."

Dr Dibb's personal motivation for getting involved in commercialisation started with his work on a project that readily lent itself to commercial sources of funding. He explained: "Like most scientists, once realising the research was commercially viable, I wanted my work to be of some use and so decided to go ahead with commercialising it."

Imperial Innovations, together with Dr Dibb, has recently entered a collaboration with NCE Discovery, a company that specialises in drug design.

Despite achieving this key step along the road of commercialisation, Dr Dibb feels there are still hurdles to overcome. In the future, the team will need to apply for bigger grant applications to progress their work. He said: "Academics can only go so far along the development route before they need to contact the pharma industry. We are working with Innovations to find alternative sources of funding as the commercialisation effort continues."

—CHARLOTTE STONE, IMPERIAL INNOVATIONS

► *Imperial Innovations may be able to help you find an alternative commercial application for your research. For further information, please visit [www.imperialinnovations.co.uk](http://www.imperialinnovations.co.uk) or contact the technology transfer team on 020 7581 4949.*

## Creative future for London school children

Two days of workshops looking at engineering in everyday objects and examining how our neurological senses work were held at Imperial last month. Organised by the College's race equality group, Imperial As One, the annual event *Creative Futures: Achieving Your Potential* is aimed at creating excitement about science amongst children from inner city London schools.



The two days focused on interactive workshops introducing the pupils, aged between 10 and 16, to hands-on science. In the workshop on neuroscience pupils were asked whether colour influences flavour identification. Using four different flavoured drinks and one unflavoured, clear drink, the pupils had to record how the colour influenced their sense of taste.

"The aim of the activity was to teach the children how to carry out self-directed investigations and how to think critically and logically to make the relationships between evidence and explanation", said Dr Brigitte Stavrou, an Imperial alumnus

and science teacher at Stockley Academy in Middlesex.

The school children had the opportunity to meet a range of role models to encourage them

to return to Imperial and other universities for further study.

Christine Yates, Imperial's Equalities Consultant, added: "This is the second year we have run the *Creative Futures* event. Next year, building on its success, we are

planning to extend it to five days, allowing more schools to participate. Academics from a range of disciplines will be asked to organise different experiments, making the event an integral part of our widening participation and outreach programmes."

—NAOMI WESTON, COMMUNICATIONS



To watch a RealPlayer film of the event, visit: [www.imperial.ac.uk/aboutimperial/news](http://www.imperial.ac.uk/aboutimperial/news)

## New pitch launched by international hockey star



Students from Imperial College Union and Imperial Medics hockey club gathered at the College's new hockey pitch on 5 October for its official opening by England hockey international Jennie Bimson.

The surface of the pitch, located at the Harlington sports ground, is the first of its kind to be installed anywhere in the UK and meets the International Hockey Federation's highest test standards.

The event kicked off at midday when Jennie Bimson, who has 165 caps for England, cut the ribbon and officially opened the pitch. Jennie also took a 45-minute training session with the students.

Neil Mosley, Head of Sport Imperial, said: "We are delighted with our new pitch. The quality of the advanced pitch system demonstrates our commitment to

developing our facilities for the benefit of our students and the local community."

—LEENA BHARADIA, SPORT IMPERIAL

# a word with...

## Richard Dickins

Imperial's Director of Music



Richard Dickins is a professional musician who trained at the Royal College of Music. As well as running the musical aspects of Imperial's Blyth Centre for Music and Visual Art, he works on a freelance basis with some of the best musicians in the country. *Reporter's Alexandra Platt* went to meet him.

administration and facilitation of our services. I also conduct two of the College orchestras. You'll see me at various events including the annual Music Day and the graduation ceremonies where I conduct the musicians during the ceremonies. Even though this is a scientific organisation, music is often at the heart of what we do here.

### What do you see as the biggest achievement in your time here?

I feel I am rewarded whenever I walk into the Centre and hear the rooms being used. There's a real buzz and you'll hear countless different types of music. People use the rooms until late into the evening. It's typically Imperial, work hard and play hard!

### What are the best and worst aspects of your job?

The best aspect of my work is the contact I have with the talented staff and students at this organisation. People are constantly amazed that an organisation that doesn't have a music department can turn out professional musicians who are invited all over the world to perform. It doesn't surprise me though. We have the brightest minds here and they achieve in music as they do in their own academic subjects. The most frustrating aspect is the lack of performance and rehearsal space at the College. All of Imperial's ensembles are so successful, but they need space to perform. That really hits home when you consider that the choir has over 100 members, as does the orchestra who come with 100 plus instruments!

### What's next?

We'll be involved in further celebrations for the Centenary and preparing for the fourth annual arts festival, which takes place in February. This is a student initiative and includes dance, art and music.

### How can staff and students get involved?

All staff and students are welcome to use the music rooms at the Centre. We can also put people of any musical ability in touch with professional teachers for a range of instruments. I would also urge people to come along to the various performances we put on around the College.

► For more information contact:  
[r.dickins@imperial.ac.uk](mailto:r.dickins@imperial.ac.uk)  
or [a.robins@imperial.ac.uk](mailto:a.robins@imperial.ac.uk)



Richard Dickins conducts an orchestral performance in the Main Entrance of the South Kensington Campus. The performance formed part of Music Day, held annually in July.

### How long have you been at the College?

I have had an association with the College for more than 20 years. I was initially invited to the College as a Visiting Lecturer by the then Rector, Eric Ash. I came in for one afternoon a week on a voluntary basis to conduct the orchestra. Since then I've never really left, and Imperial now has five orchestras, four choirs, a big band and a wind band, as well as countless other ensembles. We've built something really special here.

### What is your role here?

I have responsibility for running the musical aspects of the Blyth Centre. I am here about two and a half days a week and manage the

### What are the biggest highlights of your time here?

It was very exciting when we were generously left money by Neville Blyth, a Royal School of Mines engineer who had been a passionate musician at the College. It allowed us to build the Centre and transformed music making at the College. Before, we were making use of any space we could, including corridors and lecture theatres! We now have an amazing suite of rooms and were also able to buy some amazing musical instruments which are available for staff and students to use. Another highlight was conducting the music for the Queen's visit when she came to celebrate the College's Centenary in July.

❖ Is there someone you'd like to see *Reporter* have a word with?

Contact the editor Alexandra Platt.  
Email [a.platt@imperial.ac.uk](mailto:a.platt@imperial.ac.uk),  
or call ext. 46715.

# Staff development news

Transferable skills  
development grant scheme

## Invitation to submit proposals for work in 2007–08

Applications are invited from postdoctoral research staff, academics and Principal Investigators, outlining ideas to promote and develop transferable skills training within their department or faculty. There are two types of grant: small transferable skills development grants (normally up to £5,000) and large transferable skills development grants (up to £15,000), each requiring a written proposal explaining how the idea would be implemented.

► For more information and to access an application form, visit: [www.imperial.ac.uk/staffdevelopment/postdocs/support\\_guidance/grantscheme](http://www.imperial.ac.uk/staffdevelopment/postdocs/support_guidance/grantscheme)

## Development briefings for new engineering academics

The Staff Development Unit is running a one-day briefing for new academics in the Faculty of Engineering on 19 November. The day will focus on winning and managing research grants and will be followed by a leadership development programme in the spring. The event will provide those attending with guidance on:

- improving their chances of success when submitting research proposals
- practical aspects of managing their grant, post-award
- health and safety considerations
- good practice when appointing and managing staff

► Similar events will be offered in the other faculties from spring 2008. For more information, email: [j.barnett@imperial.ac.uk](mailto:j.barnett@imperial.ac.uk)

## New Postgraduate Prospectus online

The 2008–09 *Postgraduate Prospectus* is now online at: [www.imperial.ac.uk/pgprospectus](http://www.imperial.ac.uk/pgprospectus). To request a hard copy, visit: [www.imperial.ac.uk/pgprospectus/orderprospectus](http://www.imperial.ac.uk/pgprospectus/orderprospectus).



## celebrating long service



### 30 years

Mrs Wilhelmina Laryea • Administration Coordinator, Catering Services  
Dr Steven Wright • Research Associate, Electrical and Electronic Engineering

Staff featured will be celebrating anniversaries during the period of 1–20 October. Data is supplied by HR and is correct at the time of going to press.

## Obituaries

### Emeritus Professor

### Gareth Davies

Professor Gareth Davies, whose association with Imperial lasted some 70 years, died on 3 September. Professor Mustafa Djamgoz (Cell and Molecular Biology) writes of his colleague: “Gareth first came to the Department of Zoology and Applied Entomology, from his home town of Merthyr Tydfil, as an undergraduate in 1937. He excelled, especially in entomology, achieving a first-class degree before joining the RAF for his military service. Assigned to Bomber Command, Gareth was responsible for weather forecasting, later serving in the Ministry of Food.



After the war, Gareth joined the staff at East Malling Research Institute, but before long he was invited to apply for a lectureship in his old Department (Zoology and Applied Entomology). Thus began the happiest of associations with Imperial, where Gareth spent the rest of his career—rising to Professor of Entomology, latterly Emeritus Professor—and met his wife Brigitte, whom he married in 1952.

During this time he served under and alongside a number of distinguished zoologists, and was also a dedicated taxonomist. He embraced computing, and in 1971 he published a successful elementary text to apply this tool to quantitative biology. In his retirement, he prepared a history of entomology at Imperial.

A conscientious administrator, at various times Gareth was responsible for exams and admissions in the department and served as Assistant Director under the headship of Professor Ronald Wood FRS, when Zoology merged with Botany to become the Department of Pure and Applied Biology. Gareth also served some years as a council member and honorary secretary of the Royal Entomological Society, and was awarded an Honorary Fellowship in 2006. His reputation meant that he was much in demand as an external examiner across the UK and in Africa, but it is as an inspirational teacher that Gareth will be best remembered. His students included Professor Sir Roy Anderson FRS, our elect Rector.

A celebration of Gareth’s life and work is to be held at Imperial on 5 December at 14.30 in the Sir Alexander Fleming Building, to which all former colleagues and students are welcome.”

## welcome new starters

Mr Alejandro Abella Camacho, Catering Services  
 Dr Gideon Agbanoma, Kennedy Institute  
 Mr Simon Alexander, Estates  
 Mr Francis Angibeaud Montjen, Catering Services  
 Dr Eduard Antonyan, Physics  
 Miss Freweini Asefaw Hagos, Catering Services  
 Dr Margaret Ashcroft, Medicine  
 Mr William Astle, EPHPC  
 Mr Giacomo Bacci, ESE  
 Mr Richard Barkoczy, Catering Services  
 Dr Arthur Bartels, Mathematics  
 Dr James Bedford, Physics  
 Mr Ramnath Bhat, Catering Services  
 Dr Enrico Biffis, Tanaka Business School  
 Ms Ruthie Birger, EPHPC  
 Miss Charlotte Blunsdon, NHLI  
 Mr Oleksandr Bolgar, Catering Services  
 Ms Olga Boruc, Kennedy Institute  
 Dr Gerald Bove, EPHPC  
 Miss Amandine Brosse, Civil and Environmental Engineering  
 Ms Angelique Bruns, Humanities  
 Mrs Rasa Bukauskiene, Catering Services  
 Miss Carolina Bustamante Urrego, Catering Services  
 Mr Maurizio Caltagirone, Catering Services  
 Mr Airton Camargo de Azevedo, Catering Services  
 Ms Jana Carga, Investigative Science  
 Dr Paolo Cascini, Mathematics  
 Dr Marcella Cervantes, Clinical Sciences  
 Miss Hannah Chalmers, Mechanical Engineering  
 Miss Joanna Chamiola, Catering Services  
 Mr Georgios Charalampous, Mechanical Engineering  
 Mr Edward Charnley, Development and Corporate Affairs  
 Dr Biqiong Chen, Chemistry  
 Ms Hee Cho, Humanities  
 Mr Simon Coffey, Computing  
 Dr Rosalind Coggon, ESE  
 Ms Sarah Collington, NHLI  
 Mr John Conway, Faculty of Natural Sciences  
 Mr Andrew Crook, Catering Services  
 Miss Lucinda Denness, Biology  
 Mr Jacek Desecki, Faculty of Medicine  
 Miss Angela Devlin-Jolliffe, Medicine  
 Mr Nicholas Dingle, Computing  
 Mr Paul Donaldson, Chemistry  
 Mrs Qiji Dong, Humanities  
 Ms Christina Duffy, ESE  
 Miss Natasha Durham, Medicine  
 Dr Paul Eastham, Physics  
 Miss Claire Edgeworth, Faculty of Medicine  
 Mr James Ellis, SORA  
 Dr Nicholas Evans, Chemistry  
 Mrs Elizabeth Evans, SORA  
 Dr Robert Ewers, Biology  
 Mr Thomas Ezard, Biology  
 Mr Jonathan Ezekiel, Computing  
 Mr Christopher Farrance, Investigative Science  
 Dr Joseph Footitt, NHLI  
 Professor Leszek Frasinski, Physics  
 Mr Alan Freeman, NHLI  
 Dr Veronique Freund-Michel, NHLI  
 Mrs Amelia Fuentes Rodriguez, Medicine  
 Dr Julia Gledhill, NMH  
 Dr Rachel Gomes, ESE  
 Miss Juliana Gomes, Catering Services  
 Mr Charles Greenhill, SORA  
 Miss Iwona Gromada, Catering Services  
 Dr Shelly Gulati, Chemistry  
 Dr Jason Hallett, Chemistry  
 Dr Mary Hamilton, Biology

Mrs Mihye Harker, Humanities  
 Mr Glenn Hart, Estates  
 Ms Shubnita Hayre, Registry  
 Miss Joanne Heemskerck, Sport and Leisure Services  
 Mr Nicholas Hine, Materials  
 Mr Kin Ho, Chemistry  
 Mr Toby Hopf, EEE  
 Dr Alastair Hosie, Cell and Molecular Biology  
 Dr Hiroshi Iritani, Mathematics  
 Dr Abigail Jackson, NHLI  
 Dr Jalini Joharatnam, SORA  
 Dr Carole Jones, Humanities  
 Ms Rie Kagaya, SORA  
 Ms Junko Kasai, Humanities  
 Miss Monika Kieczka, Catering Services  
 Dr Ji-Seon Kim, Physics  
 Dr James Kirkpatrick, Physics  
 Miss Nitya Krishnan, Investigative Science  
 Ms Anastasiya Kruhlik, Sport and Leisure Services  
 Ms Poppy Lambertson, EPHPC  
 Mr Akinlolu Lawrence, Catering Services  
 Mrs Jennifer Lawton, Medicine  
 Mr Antonio Lazzarino, EPHPC  
 Ms Ester Leon, Molecular Biosciences  
 Miss Mun Lim, NHLI  
 Dr Xuguang Liu, NMH  
 Miss Cara Lomas, Kennedy Institute  
 Dr Priyadharshini Madhou, Biology  
 Mrs Katherine March, NHLI  
 Dr Celia Martin Perez, Humanities  
 Mr Mardit Matian-Konarak, ESE  
 Dr Jinhong Meng, Medicine  
 Dr Dominique Michaud, EPHPC  
 Professor Lefkos Middleton, NMH  
 Miss Meena Mohamedhossen, NHLI  
 Dr Gabriele Mondello, Mathematics  
 Mr Miguel Monteagudo Moya, Humanities  
 Miss Melissa Morris, Catering Services  
 Dr Arash Mostofi, Materials  
 Mr Philip Munro, Faculty of Medicine  
 Dr Jaume Navarro, History of Science, Technology and Medicine  
 Mrs Caroline Negrell-Russell, Humanities  
 Dr Emily Nicholson, Biology  
 Ms Sevasti-Melissa Nolas, Tanaka Business School  
 Dr Vincent O'Brien, SORA  
 Ms Beibhinn O'Connor, Estates  
 Dr Sileida Oliveros, Investigative Science  
 Mrs Lara Palhares Campos Buchmayer, Catering Services  
 Mr Julien Pansiot, Computing  
 Mr Abhishek Paul, Catering Services  
 Professor Petra Peeters, EPHPC  
 Mr Josep Perez Prior, Humanities  
 Dr Hannah Platts, Humanities  
 Mrs Anna Ponomareva, Humanities  
 Ms Rebecca Pouwer, Chemistry  
 Mr Martyn Powell, Biology  
 Mr Jose Procopio Pinto, Catering Services  
 Professor Carol Propper, Tanaka Business School  
 Dr Gunnar Pruessner, Mathematics  
 Miss Lina Puin, Catering Services  
 Mr Stefan Rainford, Catering Services  
 Mr Fernando Rainho de Oliveria, Catering Services  
 Mr Prabhu Rajagopal, Mechanical Engineering  
 Miss Maria Revelo Bados, Catering Services  
 Dr Laia Ribas Cabezas, EPHPC  
 Mr Christopher Ridgers, Physics  
 Mrs Edith Ruffato, Security Services  
 Mr Steven Salter, Catering Services  
 Miss Asta Sargiunaite, Catering Services  
 Miss Selamawit Sarmosa, Catering Services  
 Dr Vincent Savolainen, Biology  
 Mr Enrico Scalavino, Computing  
 Professor Arthur Schatzkin, EPHPC  
 Dr Carsten Schmidt-Weber, NHLI  
 Mr Tim Scott, College Headquarters  
 Miss Sandhya Seetah, NHLI

Dr Gitanjali Seevaratnam, Chemical Engineering and Chemical Technology  
 Dr Velusamy Senthilkumar, Biology  
 Ms Victoria Sharp, SORA  
 Mrs Deborah Shorley, Library Services  
 Ms Emma Silvius, Humanities  
 Dr Peter Skrandies, Humanities  
 Miss Anna Solarska, NMH  
 Dr Sian Stanley, EPHPC  
 Dr Maciej Szreter, Computing  
 Ms Kaori Taniguchi, Humanities  
 Dr Jens Teodoridis, SORA  
 Professor Bruce Tether, Tanaka Business School  
 Mr Anuj Tewari, ICT  
 Dr Laura Thevenard, Physics  
 Ms Maria Tortelli, Chemistry  
 Mr Michael Trupke, Physics  
 Dr Dimitry Turaev, Mathematics  
 Dr Kristian Unger, Investigative Science  
 Miss Bethan Unsworth, NHLI  
 Ms Maria Uriá Gonzalez, Investigative Science  
 Mr Madalin Ursu, Catering Services  
 Dr Tina Van de Fliert, ESE  
 Mr Amit Vats, SORA  
 Miss Ruth Vieira, Institute of Biomedical Engineering  
 Mrs Natalija Vladi, Catering Services  
 Ms Deeti Vyas, Centre for Environmental Policy  
 Professor Henning Walczak, Medicine  
 Dr David Walker, Medicine  
 Ms Lilian Wanjohi, Physics  
 Dr Neil Ward, NHLI  
 Ms Rachel West, Occupational Health Service  
 Mr Geoffrey Williams, Humanities  
 Dr Laura Willis, NHLI  
 Dr Jens Wirth, Mathematics  
 Miss Stella Wong, College Headquarters  
 Ms Bibian Wong, Estates  
 Dr Alexandra Wormit, Biology  
 Dr Yingqi Xu, Molecular Biosciences  
 Dr Ernesto Yague, SORA  
 Miss Boon Yap, Physics  
 Miss Louise Young, Catering Services  
 Mr Jianfeng Yu, Biology  
 Dr Bo Zhang, Chemistry  
 Dr Chengran Zhang, Humanities  
 Miss Justine Zhang, Library Services  
 Ms Lei Zhang, Library Services

Miss Judith Goyder, NMH  
 Miss Tian Gu, Student Residences  
 Mr Ben Harris, IC Student Union  
 Dr Daniel Heesch, EEE  
 Mr Daniel Humphrey, Security Services  
 Mr Mohamad Jamal, Student Residences  
 Mr Viren Jeram, Student Residences  
 Dr A. Robert Juhasz, EEE  
 Mr Afiq Kadir, Student Residences  
 Miss Inder Kaur, Student Residences  
 Mr Isaac Kim, Student Residences  
 Mr Bartosz Koprowski, Student Residences  
 Mr Tomasz Koprowski, Student Residences  
 Mr Christopher Kurzeja, Student Residences  
 Mr Peter Kwok, Student Residences  
 Mr Chung Lau, Student Residences  
 Miss Olga Leszczynska, Student Residences  
 Mr Richard Martin, Faculty of Engineering (6 years)  
 Mr Jonathan Martinelli, Chemistry  
 Mr Jose Martinez Gutierrez, Catering Services  
 Mr Leo Martins, Student Residences  
 Mr Michael Meade, NMH  
 Ms Jacqueline Mendoza, Cell and Molecular Biology (10 years)  
 Miss Marta Mlynarczyk, Student Residences  
 Miss Deborah Neesham, Student Residences  
 Mr Jin Ooi, Student Residences  
 Ms Abiola Osho, Student Residences  
 Mrs Miranda Palmer, Agricultural Sciences (18 years)  
 Dr Simon Parry, Molecular Biosciences (5 years)  
 Dr Yolanda Perez Fuertes, Chemistry  
 Mr Damian Phelan, Student Residences  
 Miss Jessica Priestley, NHLI  
 Miss Natasha Rea, Student Residences  
 Dr Pierre Ricco, Institute for Mathematical Sciences  
 Miss Susan Roberts, Centre for Environmental Policy  
 Ms Nuria Roque Rosell, Chemistry  
 Mr Khairul Rostani, Student Residences  
 Mr David Rowley, Student Residences  
 Dr Andrea Ruggiero, Chemistry  
 Dr Laleh Safinia, Chemistry  
 Dr Beverley Saunders, SORA  
 Mr Rak-Kyeong Seong, Student Residences  
 Mr Thushan Shanmugarajah, Student Residences  
 Mr Zhengguo Sheng, Student Residences  
 Ms Bushra Siddiqui, Investigative Science  
 Miss Magdalena Skrzecz, Student Residences  
 Ms Agata Skrzecz, Student Residences  
 Dr Kaji Sriharan, SORA  
 Dr Andrew Stagg, Investigative Science (13 years)  
 Miss Rachel Sutton, Investigative Science  
 Dr Patricia Taraborrelli, NHLI  
 Dr Maria Tomas Rodriguez, EEE  
 Mrs Sally Troyna, Library Services  
 Dr Fiona Tsang, SORA  
 Dr Susan Tudhope, NHLI (10 years)  
 Dr Raoul Van Loon, Aeronautics  
 Ms Geraldine Vaughan, Faculty of Medicine  
 Mr Roger Wadi, Estates (5 years)  
 Ms Lynda Walker, NHLI (5 years)  
 Mr Dan Walter, Student Residences  
 Miss Jia Wang, Student Residences  
 Mr Jianye Wang, Student Residences  
 Ms Le Wang, Student Residences  
 Ms Ka Wong, Student Residences  
 Miss Yaowarez Yongsunthon, Computing  
 Ms Alice Zangrandi, Cell and Molecular Biology  
 Miss Yujie Zhao, Student Residences

This data is supplied by HR and covers the period 1–20 October. It was correct at the time of going to press. Years of service are given where an individual has been a member of College staff for over five years. Asterisk (\*) indicates where an individual will continue to play an active role in College life.

## farewell moving on

Mr Gino Abdul-Jabbar, Student Residences  
 Mr Hossein Afghah, Student Residences  
 Miss Sarah Ahmed, Cell and Molecular Biology  
 Mr Melvyn Andrews, Materials (34 years)  
 Miss Lauren Aronson, Cell and Molecular Biology  
 Dr Omer Aziz, SORA  
 Mr Prasana Balakrishnan, Student Residences  
 Ms Nikki Black, Student Residences  
 Ms Debbi Boden, Library Services  
 Mrs Ericka Botelho Mota Goncalves, Student Residences  
 Miss Katie Burke, NHLI  
 Mr Pete Champion-Spall, International and External Academic Affairs  
 Mrs Karen Carden, Library Services  
 Miss Jolly Chan, Student Residences  
 Mr Peng Chen, Student Residences  
 Dr Lorna Colquhoun, Medicine (5 years)  
 Dr Lynette Crowther, Cell and Molecular Biology  
 Mr Kofi Danso, Student Residences  
 Mr Gareth Davies, Reactor Centre  
 Mr Derek Davis, Medicine  
 Dr Cassiano De Oliveira, Mechanical Engineering (17 years)  
 Ms Kay Dhawan, Library Services  
 Dr Zhiguo Ding, EEE  
 Mr Paul Dobson, ICT  
 Miss Onyinyechi Duru, Student Residences  
 Dr James Francis, NHLI (7 years)  
 Miss Aisha Gloudon, Student Residences  
 Mr Khushal Gohel, Student Residences

### Clarifications and corrections

- Please note that this time, the moving on section includes the names of student staff employed over the summer to work in halls of residence.
- The dates of the last moving in, moving on were incorrect. They should have read 9–30 September.

Please send your images and/or brief comments about new starters, leavers and retirees to the Editor, [a.platt@imperial.ac.uk](mailto:a.platt@imperial.ac.uk) who reserves the right to edit or amend these as necessary.

moving in. moving on.

### what's on

1 NOVEMBER 18.30–19.45

#### A marriage made in heaven or hell? Do scientists and the media make good bedfellows?

Debate with Imperial academics and alumni working in the media

Lecture Theatre G16, Sir Alexander Fleming Building

☒ Registration in advance: [events@imperial.ac.uk](mailto:events@imperial.ac.uk)

2 NOVEMBER 17.30–18.30

#### The future of geophysical technology: revolution or evolution?

Professor Helmut Jakubowicz (*Earth Science and Engineering*)

Inaugural Lecture

Clore Lecture Theatre, Huxley Building

☒ Registration in advance: [amy.thompson@imperial.ac.uk](mailto:amy.thompson@imperial.ac.uk)

7 NOVEMBER 18.00

#### Plagues and people: from population ecology to public health

Professor Sir Roy Anderson

Silwood Diamond Seminar Series

Silwood Park

☒ First come, first served

13 NOVEMBER 09.00–17.00

#### Africa—health matters?

A one day symposium hosted jointly by Imperial College London and the Royal Geographical Society with IBG

Ondaatje Theatre, Royal Geographical Society with IBG, Exhibition Road, South Kensington

☒ Tickets to be purchased in advance: [events@rgs.org](mailto:events@rgs.org)

13 NOVEMBER 18.00–19.30

#### How corporations reshape democracy

Professor Stephen Barley, Co-Director of the Centre for Work, Technology and Organisation

Joan Woodward Centenary Memorial Lecture

Lower Ground Square Lecture Theatre, Tanaka Business School

☒ Registration in advance: [y.cheng@imperial.ac.uk](mailto:y.cheng@imperial.ac.uk)

► All events are at the South Kensington Campus unless otherwise stated.

13–14 NOVEMBER 9.00–18.00

#### Imperial College Institute of Systems Biology Autumn Symposium on Systems and Synthetic Biology

Lectures and research poster display

Tanaka Business School

☒ Registration in advance: [l.santoro@imperial.ac.uk](mailto:l.santoro@imperial.ac.uk)

15 NOVEMBER 17.30–18.30

#### Why manufacturing matters

Sir John Rose, Chief Executive Rolls-Royce plc

Annual Gabor Lecture

Lecture Theatre G16, Sir Alexander Fleming Building

☒ Registration in advance: [amy.thompson@imperial.ac.uk](mailto:amy.thompson@imperial.ac.uk)



19 NOVEMBER 10.00–17.00

#### The Sixth Annual Proteomics Day and Second BSRP London Regional Meeting

Lecture Theatre G16, Sir Alexander Fleming Building

☒ Registration in advance: [events@imperial.ac.uk](mailto:events@imperial.ac.uk)

21 NOVEMBER 17.30

#### Discovering the quantum universe: the large Hadron Collider Project at CERN

Professor Jim Virdee (*Physics*)

Annual Schrödinger Lecture

Great Hall, Sherfield Building

☒ Registration in advance: [amy.thompson@imperial.ac.uk](mailto:amy.thompson@imperial.ac.uk)



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### volunteering

#### Befrienders needed

Project: Befriender  
Project ID: 1795  
Organisation: Staying Put Services  
Date(s): Ongoing  
Location: Kensington and Chelsea, Westminster

Volunteers are needed to visit elderly clients in their homes for conversation, companionship and support with small tasks like reading post or going for a walk. By visiting an elderly person on a regular basis (weekly or fortnightly), you can help them to maintain their independence and be part of their community. Befriending is also a great opportunity to meet someone you wouldn't ordinarily have the chance to get to know and develop a real, lasting friendship. Befrienders will visit clients in their own homes, or occasionally accompany the client to the shops or cafés. All clients live in Westminster or Kensington and Chelsea. Staying Put Services will endeavour to match you with a client living in your local area, or an area convenient to where you study or work.



#### For more information

To take part in a scheme or to hear more about volunteering in general, contact Minna Ruohonen  
• 020 7594 8133  
• [m.ruohonen@imperial.ac.uk](mailto:m.ruohonen@imperial.ac.uk)

For full details of over 250 volunteering opportunities visit: [www.imperial.ac.uk/volunteering](http://www.imperial.ac.uk/volunteering)

Subscribe to the weekly newsletter by emailing: [volunteering@imperial.ac.uk](mailto:volunteering@imperial.ac.uk)

### Take note

#### New photo for your new-look PWP

Staff and researchers are given the opportunity to replace their Professional Web Page photograph with one taken professionally as part of the College's Web Redesign and Information Architecture project.



For more information about this free opportunity and the Web Redesign project, please visit the blog at:

<https://www7.imperial.ac.uk/commsblog/blogs>.  
Remaining slots to have your photo taken:

**2 November, South Kensington Campus**  
09.30–12.00 in the Bessemer Building entrance  
14.00–16.30 in the Mechanical Engineering concourse

**6 November, Silwood Park Campus**  
10.30–14.00 in the Orangery, Manor House