A big welcome back and Happy New Year!

We had a fantastic celebration at the end of term. A huge thank you to the Sixth Form SLT for leading the organisation and for fundraising just over £200 for the Welcome Centre in Ilford which supports local homeless people. A huge thank you to our local Tesco Express for generously contributing to our celebration, thus meaning we could donate more to the Welcome Centre!

This week we have finalised sending UCAS applications and many of our students have begun to receive offers. We are delighted that students have already received offers and I look forward to sharing further details around this and our success with apprenticeship offers soon.

We have now received details of the ARK Bursary Awards. Year 13 students attended an assembly on this earlier in the term about them. If you would like to be nominated, please can you write a short letter of application outlining why we should nominate you for the award and submit it to Ms Patel by Wednesday 16th January. Your letter should explain why you wish to be considered for a bursary and how it would benefit you. You should also include your academic and extra-curricular interests and share any positive contributions you have made to your school and community. Please also discuss your future plans, demonstrate your motivation for university, and explain how university will impact your future.

Our Year 12 students heard from Dr Cyril Molony. He spoke passionately about his own life journey and was able to explain the science being having a growth mindset and the power of persistence and practice. A huge thank you to him for speaking to our students and we look forward to welcoming him back in the future.

With best wishes,

Ms Alibhai, Vice Principal and Head of Sixth Form
All My Sons

Tickets are now on sale for our live broadcast of Arthur Miller’s All My Sons from the Old Vic.

The Old Vic is London’s independent theatre, a world leader in creativity and entertainment. Today, Artistic Director Matthew Warchus is building on 200 years of creative adventure – we hope to be a surprising, unpredictable, ground-breaking, rule-breaking, independent beacon of accessible, uplifting and unintimidating art.

With a cast including Sally Field (Steel Magnolias), Bill Pullman (While You Were Sleeping), Jenna Coleman (Victoria) and Colin Morgan (Merlin).

Broadcast live Thursday 14 May
An Old Vic and Headlong Theatre production.

FIND OUT MORE
Attending summer school is a great way to discover what it is like to study at Imperial and what life is like as a student in London.

Please follow the link below to find out more about each programme and for details about recruitment for this summer.

Applications will open on Wednesday 9 January.

APPLY HERE

The Amos Bursary
Aimed at black male students from African and Caribbean descent in year 12 with aspirations of going on to university. If you have any students that are talented but lack direction or are not reaching their potential please let them know about this opportunity. Application closes on Friday 18 January. Please visit www.amosbursary.org.uk.

Imperial supports the Amos Bursary in a number of ways, including providing student mentors and event space.
Wednesday 6 March 2019
9:15 - 14:00
Conference Aston Meeting Suites, Main Building, Aston University

Join us during National Apprenticeship Week 2019 to discover this new and exciting alternative route. Aimed at year 12 and 13 students as well as teachers, this event will give you an in depth understanding of degree apprenticeships.

Unlike the traditional university route, students wishing to undertake a degree apprenticeship won’t apply through UCAS, instead they will apply directly to employers who have rigorous application processes including telephone interviews, aptitude testing, online interviews and assessment centres.

This event will cover:

- An introduction to degree apprenticeships
- An overview of the types of degree apprenticeships available
- A step-by-step guide to the admissions process
- An opportunity to hear from one of our degree apprentices
- A session delivered by an Aston University partner employer
- Practical workshops.

*Places are limited so registration is essential and bookings are limited to 20 students per school in the first instance.*
The Government Economic Service is the professional body for economists in the UK civil service. Founded in 1964, you will be part of a greatly respected organisation.

The Civil Service helps keep the UK prosperous and secure, supporting the government in implementing their commitments and delivering high-quality services for the public.

The Government Economic Service Degree Apprenticeship Programme (GES-DAP) is relevant to all central government departments and agencies. Many are already committed to recruiting apprentices through the programme, including HMRC, HM Treasury, Department for Work and Pensions, Department for Business, Energy and Industrial Strategy, Department for Environment, Food and Rural Affairs, the Home Office, Department for Education, and the Department for Transport.

We employ over 420,000 people from across the UK. Our core values are integrity, honesty, impartiality and objectivity, and we are committed to recruiting people from a range of different backgrounds.

WHY WORK WITH US?

• Extremely varied opportunities leading to a wide range of careers, such as journalism, analysis and policy advisory
• Be part of a fun community, with many social events
• Nationally, you will be paid a starting wage of least £20,448. If you are in or around London, this rises to £22,000. After graduation, your starting salary will be £27,000
• 25 days annual leave, increasing to 30 days after 5 years’ service.
• Flexible working patterns including part-time or full-term, and access to Flexible Working Schemes
• We have a culture that supports all, no matter their background or ambitions
• Study for your economics degree at the University of Kent, with quality teaching and world-leading academics
• Access interest-free loans allowing you to spread the cost of an annual travel season ticket or a new bicycle.

GCSE Examinations Contingency Day

The Joint Council for Qualifications (JCQ) have announced a contingency date of the 26th of June 2019.

A contingency date is a day specifically set aside “in the event of widespread, sustained national or local disruption to examinations during the June 2019 examination series”. This decision comes following the tragic events of last summer, in particular the Manchester attack and the Grenfell Tower fire. It may be necessary to postpone an exam in the event of such an incident to allow all students a fair and equal chance.

This means that all candidates taking GCSE or A Level exams must be available to sit exams from the date of their first exam until the 26th June 2019. We understand that once your exams are over you will probably want to celebrate, but in light of this new rule please do not organise a holiday or plan to be any distance from school until after the 26th June. This decision is not one that has been taken by INA, it has been imposed on all schools by JCQ and does apply to all candidates in all schools in the UK.

Mr Crowther-Green, Assistant Principal
The Dennis Gabor Lecture:  
**Inventing the future**

Sir Mark Walport, Chief Executive of UK Research and Innovation, discusses Gabor’s “Inventing the Future” with the benefit of 55 years of hindsight.

**06 Feb 2019  17:30 - 18:30**

Sir Mark is Chief Executive of UK Research and Innovation, which brings together the seven Research Councils, Innovate UK and Research England. UKRI became an official public body on 1 April 2018 and operates across the whole of the UK with a combined budget of more than £6 billion. He has been a champion for science, engineering and technology in his role as Government Chief Scientific Adviser, Head of the Government Office for Science and Co-Chair of the Prime Minister’s Council for Science and Technology.

A distinguished scientist in his own right, Sir Mark was also Professor of Medicine and Head of the Division of Medicine at Imperial College London.

He received a knighthood in the 2009 New Year Honours List for services to medical research and was elected as Fellow of The Royal Society in 2011.

[BOOK HERE](#)

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**Can natural gas reduce emissions from transport? Heavy Goods and Shipping**  
The Sustainable Gas Institute (SGI) will be launching its fourth report in their White Paper Series

**28 Jan 2019  17:00 - 20:00**

The evening will commence with a welcome by the co-directors of the Institute, Professor Nigel Brandon and Dr Adam Hawkes, followed by a 30 minute overview of the report from the lead author, Dr Jamie Speirs.

This will be followed by a panel debate and a Q&A with experts in the field.
- Adam Morton, Rolls-Royce’s Head of Environmental Technology
- Dr Tristan Smith, Reader in Energy and Transport at University College London
- Third panellist (still to be confirmed)

**About the report**

Emissions in the transport sector are an increasingly important issue in global energy systems. This includes both greenhouse gases (GHGs) and air pollutants including oxides of nitrogen (NOx) oxides of sulphur (SOx) and particulate matter (PM).

However, the progress on reducing greenhouse emissions from transport has been relatively slow, with emissions from shipping proving to be particularly challenging. Natural gas has been suggested as an alternative transport fuel to help combat these emissions, particularly in shipping and goods transportation due to the range requirements in these vehicle types. However, there is some disagreement as to the potential for natural gas to provide significant improvements over emissions emerging from the current transport system.
Super-Earths & Mini-Neptunes: Exoplanets and Habitability in the Age of Kepler

17 Jan 2019  18:45 - 20:00

Imperial’s very own Dr Subhanjoy Mohanty will take you through the latest scientific results from the Kepler Space Telescope, an instrument designed to detect other worlds around distant stars, including what we’ve learned about the very architecture of solar system construction, strange new kinds of planets not seen in our backyard, and if life could feasibly exist on other Earth-like planets. The lecture will start at 19:00 and last for around 50 minutes, after which there will plenty of opportunity to ask questions to Dr Mohanty. Suitable for the whole family!

The Kepler space mission’s discovery of thousands of exoplanets -- planets orbiting stars beyond our sun -- has revolutionised our understanding of planetary systems. Three of the most remarkable results from this mission are: (1) planets are astoundingly ubiquitous: nearly every star harbours one or more; (2) most stars host super-Earth to mini-Neptune sized planets, revolving in orbits smaller than Mercury’s: a class of planet not found in our own solar system; and (3) around dim red dwarfs -- themselves the most common type of star in the galaxy -- many of these super-Earths to mini-Neptunes reside within the Habitable Zone: the region where liquid water may survive on the planetary surface. I shall discuss each of this results, their implications for how planets form and evolve, and how these discoveries are driving the search for habitable exoplanets and the signatures of life by upcoming space missions.

Molecular movies: capturing the ultra-fast structural dynamics of life

06 Feb 2019  17:30 - 18:30

We are astonishing miracles of molecular complexity. And yet, through that complexity comes the ability to direct the simplest everyday movements that sustain all life on Earth. So how do we, and all living things, move? What underpins biological motion?

Zooming in, from living organism, to tissues, cells, and down to atomic and electronic dimensions – we find protein molecules that keep life moving. However explaining exactly how these complex molecules do their jobs has proved difficult without understanding their arrangement of atoms and electrons and how these structures change during the act of movement.

Biography

Jasper van Thor has always been motivated by a single idea – to understand how life actually works. Jasper is now part of a global community of scientists peering into this tiny world of extremely fast moving reactions, and firing intensely bright pulses of light to stimulate and photograph the engine rooms of life in action. Where we previously relied on static images taken before and after a reaction, and simulations to infer what might have happened in the middle, by capturing trillions to almost quadrillions of images per second Jasper’s several techniques are producing the first ever motion picture movies of the protein chemical reaction behind fundamental process like photosynthesis and vision, in real time.
Berners-Lee’s World Wide Web (WWW) was not his original aim, which was closer to what we now call the Semantic or Data Web (SW): documents and images where the system itself ‘understands’ its content as the WWW certainly does not, any more than a television knows what it is showing.

Professor Wilks will describe the Semantic Web and its origin in annotation methods from the humanities and will argue the need for this form of AI to manage a lifetime’s information on the web.

No reservations are required for this lecture. It will be run on a ‘first come, first served’ basis.

Doors will open 30 minutes before the start of the lecture.

Yorick Wilks is Visiting Professor of Artificial Intelligence at Gresham College. He is also Professor of Artificial Intelligence at the University of Sheffield, a Senior Research Fellow at the Oxford Internet Institute, and a Senior Scientist at the Florida Institute for Human and Machine Cognition.

The 30th Anniversary of The Children Act 1989: Is It Still Fit For Purpose?

Thursday, 31 January 2019, 6:00PM - 7:00PM

The Children Act 1989 embodied a change in philosophy by making the child’s welfare the courts ‘paramount’ concern, moving away from the concept of parental rights towards the right of the child. It embraced the idea of shared parental rights and responsibilities and that children are best cared for within their families but not at the expense of suffering avoidable significant harm.

Has the Act done right by children since 1989? Has it adapted to the challenges of childhood and society?

No reservations are required for this lecture. It will be run on a ‘first come, first served’ basis. Doors will open 30 minutes before the start of the lecture.

Professor Jo Delahunty QC is one of the UK’s leading barristers specialising in cases concerned with families and children. Since being called to the Bar in 1986, Professor Delahunty has come to practice at the High Court level and above, rising to prominence for her work in cases concerning contentious medical evidence and the death of/catastrophic injuries to a child; ‘shaken baby’ allegations where genetic and benign cases can mimic physical abuse; inter-generational and inter-sibling sexual abuse; ritualized abuse; ISIS radicalisation risks and cases involving vulnerable adults and victims where learning disabilities and mental health difficulties prevail.
Taster Days @ Murray Edwards College

Taster Day for Classics and English – Tuesday 19 February 2019
On Tuesday 19 February 2019, Murray Edwards College will be holding a Taster Day for young women in Year 12 who are considering studying either Classics or English at degree level. The event will provide an insight into what it is like to study Classics or English at Cambridge University. The English and Classics sessions will run in parallel and will include a taster lecture as well as a session providing course information. For students taking part in the Classics sessions, there will also be an opportunity to visit Cambridge University’s Museum of Classical Archaeology. Further information and an online booking form can be found at: https://www.murrayedwards.cam.ac.uk/classics-and-english-taster-day-tuesday-19-february-2019.

Taster Day for Geography and History – Friday 22 February 2019
On Friday 22 February 2019, Murray Edwards College will be holding a Taster Day for young women in Year 12 who are considering studying Geography or History at degree level. The event will provide an insight into what it is like to study Geography or History at Cambridge University. The Geography and History sessions will run in parallel and will include a taster lecture as well as a session providing course information. Further information and an online booking form can be found at: https://www.murrayedwards.cam.ac.uk/geography-and-history-taster-day-friday-22-february-2019

Building the future: infrastructure economics and the low carbon transition
23 January 2019
18:30 - 19:30

Now and in the future, enormous infrastructure investment will be required to combat climate change and mitigate its effects on human populations. Our understanding of how infrastructure investment can facilitate structural economic change needs renewed methodological rigour and robust empirical studies.

A special report from the Intergovernmental Panel on Climate Change (IPCC) - Global Warming of 1.5°C - represents an urgent call to action, emphasising the need to decarbonise the transport and energy sectors.

This inaugural lecture with Professor D’Maris Coffman - Director of The Bartlett School of Construction and Project Management - will explore new approaches to understanding unmet demand for infrastructure provision, placing infrastructure at the centre of debates about how to effect the low carbon transition.

The lecture will begin at 18:30 and will be followed by a networking reception from 19:30.

Admission: Free
Ticketing: Pre-booking essential
Political Violence in a New Global Order

27 January 2019
18:15 - 19:45

Speaker information:
Dr. Zeynep Bulutgil, Academic, UCL, Chair: Prof. Kristin Bakke / Kit Rickard
The changing global order: Dr. Zeynep Bulutgil
International and civil war: Dr. Rod Abouharb
Ethnic cleansing/genocide: Dr. Kate Cronin-Furman
Terrorism: Dr. Manuel Vogt
United Nations and other interventions: Dr. Nils Metternich.

100 years after the First World War, we are witnessing major changes in the global political order. Rising powers challenge Western hegemony while international institutions are undermined. In Western countries, the rise of nationalist-populist forces goes hand in hand with fear of outside threats, such as terrorism. Are we facing a new era of instability and war? This panel from the Conflict & Change group of UCL’s Department of Political Science will discuss the likelihood and patterns of political violence – and how we can confront it – in a new global order.

Admission: Free
Ticketing: Pre-booking essential

The Bartlett International Lecture Series Spring 2019 – Manuelle Gautrant Architecture

16 January 2019
18:15 - 19:45

Manuelle Gautrand, Founder and Director, Manuelle Gautrant Architecture, is a French architect and founder and director of Parisian based architecture firm Manuelle Gautrand Architecture. In her approach to architecture she explores the crisis of modernity: how disobedience, boldness and plurality can remedy replication.

The Bartlett School of Architecture’s International Lecture Series (ILS) welcomes experts, visionaries and skilled professionals from across the world to share ideas and give invaluable insight.

All lectures will begin at 18:30 in The Christopher Ingold Auditorium, UCL, via 22 Gordon Street. Lectures are open to all and seats are allocated on a first-come-first-served basis.

Admission: Free
Ticketing: Pre-booking essential
We sometimes hear that ‘we know more about Mars than the deep ocean’, but is that true? Exploring the deep ocean is a recent enterprise, made possible by new technology in the past two centuries, but what we now know about the dark depths is as remarkable as the unknowns that remain. This lecture examines the deep-sea discoveries that have transformed our understanding of our planet, and the history of exploring the deep ocean that covers most of it.

Dr Jonathan Copley is Associate Professor in Ocean Exploration and Public Engagement (part-time) within Ocean and Earth Science, National Oceanography Centre Southampton at the University of Southampton. In June 2013, he became the first British person to dive more than 5 km deep in the ocean, taking part in the first dive by a human-occupied vehicle to the world’s deepest known hydrothermal vents. In December 2016, he took part in the first dives by human-occupied vehicles to 1 km deep in the Antarctic, during filming of the BBC’s Blue Planet 2 series.

Consideration of street food in the contemporary world draws attention to the cities of the Global South, where some of the most interesting food is from the street. This new focus can change the politics and poetics of good taste. It has the capacity to decolonize palatal and philosophical expectations of gastronomy that have come to dominate the field. And it also marks the transition from the twentieth-century welfare politics to an unchartered world of micro-entrepreneurship, risk and precarity in the twenty-first century.

Based on a case study in Delhi, India I show how democracy works at the ground-level of the marketplace and suggest that rather than eliminating street vending, a better pathway to a livable city would be a nuanced balancing of the laws, which can account for livelihoods of poor people in the short- and the medium-run, along with the liveliness of cities for all, allowing a slow, fruitful traffic in life-sustaining activities on the street. The challenge is to find ways to integrate the life of the foot and pedal with the inanimate powered wheel in the last mile – which is what we call a neighborhood -- in a livable city.
Get a glimpse of life at Royal Holloway, on one of our free Year 12 Summer University residentials.

Over the course of three days, you’ll enjoy in a range of activities, including subject taster sessions, meeting students and staff, and a varied social programme. You’ll even get to stay on campus in secure student accommodation.

**Sciences Summer University:**

25 - 27 June 2019

**Arts and Social Sciences Summer University:**

2 - 4 July 2019

Applications for our 2019 Year 12 Summer University residentials now open! Applications will close on Thursday 28 February.

**Click here** for more information.

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**Keeping it ‘real’: a search for efficacy and authenticity across paradigms**

*Imperial College London*

16 January 2019

17:30 - 18:30

Martyn will draw out lessons from his research and his personal journey from biomedical researcher into Education.

Martyn Kingsbury, the College’s first Professor of Higher Education, started out doing a Biological Science degree in Bristol, an applied course that included stints working in veterinary pathology and forensic science. Having specialised in physiology and pharmacology he continued on to do his PhD at the University of Bath. A Royal Society / JSPS Fellowship at Tohoku University medicine followed and he spent two years in Japan researching the profile of novel cardiovascular drugs. On completing this he briefly returned to Bath to extend his PhD work before joining Imperial in 1993 as a research associate at St Mary’s in the Academic Cardiology unit looking at left ventricular hypertrophy and heart failure.

Martyn has always been interested in teaching, teaching cardiovascular physiology and pharmacology at undergraduate and post graduate level, being involved in a number of intercalated BScs and teaching on the MBBS course. He played a key role in developing Imperial’s Master’s in University Learning and Teaching and took over as head of the renamed EDU in 2010 and became director of educational development in 2014.

The lecture is free to attend and open to all, but registration is required in advance.

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**Academic activities**

During the residential, you’ll take part in a programme of academic workshops, as well as information and guidance sessions about university. You can choose between an arts and social sciences residential or a science-based residential. Our student ambassadors support these sessions, giving you real-life examples and tips about becoming a university student.

**Social activities**

The residential will comprise of social events such as a BBQ, disco, quiz or film night, each evening. This gives you the chance to make new friends and get an insight into the social side of university life.
Space and time: a modern perspective
30 January 2019
17:30 - 18:30

Find out why probing space and time on the tiniest quantum scales could help us understand black holes and the big bang.

Toby Wiseman is Professor of Theoretical Physics at Imperial College London, and has spent much of his career exploring aspects of space-time holography. In particular having been a member of Professor Stephen Hawking’s research group, Toby has used it to show it correctly reproduces Hawking’s prediction for the thermal properties of black holes.

In his inaugural lecture he will explore the idea of quantum gravity and this holographic description of space and time. Starting with the ideas of Newton, before moving through Einstein’s theory of General Relativity and Hawking’s own work, Wiseman will explain why discoveries on these smallest scales may help us understand the origin of the universe.

The lecture is free to attend and open to all, but registration is required in advance.

The Entrepreneurial Lawyer: carving out paths in lawtech and social finance
16 January 2019
17:30 - 18:30

In the inaugural PLI Lecture, two lawyers in contrasting new legal roles describe how they went from traditional Corporate and Real Estate Law careers to carving out unique positions in legal technology and social impact investment.

Rebecca Perlman will explain how her work at Herbert Smith Freehills first led her to a secondment to the Government of Sierra Leone, where she advised on Foreign Direct Investment in the wake of Ebola, and ultimately to her role as the first full time pro-bono solicitor at HSF. She will discuss her pioneering work advising social impact start ups, developing country governments and not-for-profits, and the value such work can bring to a major law firm like HSF, which recently launched its global social impact investment practice servicing both pro bono and fee-paying clients.

Sam Spivack will describe his journey from working as a lawyer at Berwin Leighton Paisner to a global role at leading Artificial Intelligence company, Kira Systems, and how Kira offers a radical new way for firms to achieve efficiency through machine learning.

Register on Eventbrite to attend.
EY are offering paid work experience + ongoing mentoring for students interested in a career in business.

To qualify, you have to have been eligible for free school meals at any time in the last six years. Interested students should let Ms Joy know as soon as possible because Ark will provide help in getting your application completed.

[Image of Sutton Trust Summer Schools]

Are you keen to explore your subject interests in depth? Are you motivated by a challenge and do you like the idea of discussing your ideas with equally motivated students and teachers? If so, we’d love you to consider spending a week with us at Cambridge.

What are they?

The Cambridge Sutton Trust Summer Schools are week-long, subject-specific residential courses, where you live and study as a Cambridge student. You’ll stay in your own private student room within a Cambridge College, eat with other Summer School students in the canteens and socialise in the common rooms.

During the day, you’ll be in your academic department, where you’ll be taught by world-leading experts in your subject. They’ll guide you through new areas of study, introducing you to the depth and breadth of a Cambridge undergraduate course. The subject timetables are varied: you might undertake your own research project, participate in seminars, laboratory sessions or fieldwork, go behind-the-scenes at museums or test out Cambridge’s supervisions (specialised, small-group teaching).
Information session with Group Talent Development Manager
Tuesday 22nd January 2019 at 3 pm

Hill’s management trainee programme creates exceptional professionals in the housebuilding industry and enables you to be paid a competitive salary whilst working towards a BSc (Hons) degree.

During term-time you will typically work for four days a week and attend university on the fifth day. You can forget about any student loans or tuition fees, and you will gain on-the-job experience which is invaluable. Best of all you will have a guaranteed job when you graduate.

You will be enrolled on an accredited degree course, work alongside experienced and knowledgeable employees and will be assigned a mentor to guide and assist your career progression. In your first year you will experience hands-on training as you rotate through a variety of departments, so that you understand all the elements of the development and build process.

At Hill you will receive first class training and gain a qualification that will set you up for life. We offer a wide variety of roles and the chance to work on and influence industry-leading projects, with a great support network.

If you are interested, see Ms Joy.

Choosing between your offers
Bethany Miall
Outreach Officer University of Plymouth
Thursday 31 January 2019, 16:00 – 16:40, T.05 - SFSC

Once students have started to receive their university offers the next stage of the decision process can be difficult for them; choosing their firm and insurance universities. The aim of this talk is to provide tips and advice on how to make the right decisions for them, and includes information about important dates and how to respond via the UCAS website.