Welcome to this week’s newsletter.

It has been another exciting and interesting week within the Sixth Form.

We welcomed back Awais and Zaynah, two founding INA students who spoke to our Year 12 about Super Curricular learning. Further details can be found in this week’s newsletter.

We also started preparation for Year 11 into Year 12 transition by welcoming 40 guests from Barclays Bank on Thursday who have spent time with students preparing CVs, interview skills and interpersonal skills. We thank them all for their time and a particular thank you to Sohini for her commitment to supporting INA students over the last 4 years.

On Friday teaching staff from across the ARK network will come together to reflect on the past 15 years of the success of the network. We are very grateful to ARK for the support given to our students in terms of wider opportunities, bursaries and the support given to teachers as part of being in a network.

On a final note, we wish the Year 13s all the best of luck for their exams next week.

With best wishes,

Ms Alibhai, Vice Principal and Head of Sixth Form
Dates for the diary

- Year 13 mocks: 7th October - 18th October
- Oxbridge/DMV deadline: 15th October
- Year 13 Reports: by 15th November
- School internal UCAS deadline: 6th December
- UCAS deadline: 15th January
- Final Year 13 Mocks: 10th February - 28th February
- A levels start: provisionally 11th May

- A level results day: 13th August 2020

Good Personal Statements

- Show a real passion for studying the subject
- Have tangible examples of where the candidate has shown an interest in the subject beyond the standard curriculum
- Show that the student has researched the courses that they applying for and can reference this
- About 10-20% can be about extra curricular, but the vast majority should be referencing super curricular
- Getting the grade is not enough!
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### Speakers Programme

This week we welcomed Awais Seyyad and Zaynah Chaudhry as our speakers. We were very lucky to have the opportunity to invite former students to speak to our Year 12 students about the importance of super-curricular activities.

Both Awais and Zaynah spoke about the amazing opportunities they had undertaken during their time at our school, ranging from university visits to international summer schools. Our Year 12s made the most of this opportunity to ask questions about the importance of super-curricular activities for both academic purposes and personal development.

We not only invite but urge parents and students to explore the super-curricular opportunities advertised in our newsletter to help students make informed choices about their post-18 options.
If people cannot identity themselves digitally then the digital society does not work.

How do biometrics help reduce crime and is it possible to have a biometric system yet not broadcast even more personal information than we do now? There are hosts of biometric systems but which ones work and which are little more than guessing?

Richard Harvey is IT Livery Company Professor of Information Technology at Gresham College and Professor at the School of Computing Sciences at the University of East Anglia.

He also holds several posts in the Vice-Chancellor’s Office at University of East Anglia, including Academic Director for Admissions and Academic Director of Internationalisation. Before joining UEA in 1993, Professor Harvey was a mathematician at first Plessey Naval Systems and then Marconi Underwater Systems.

Professor Harvey holds a PhD in the application of statistical estimation theory to the passive synthetic aperture problem. In his early career, he focused on problems in signal processing, acoustics and vibration.

His research now focuses on artificial intelligence and computer vision. Recently he has been working in the field of artificial lip-reading which fascinates him because of the scientific challenge and allows him to debunk false claims and misunderstandings.

He routinely speaks at schools and conferences around the country both on technical topics related to Computer Science but also on matters relating to admissions policy and widening participation.

Professor Harvey has also acted as a consultant for international companies and as Executive and Non-Executive Director for several spin-outs and start-ups.

Algorithmic Human Development: what is it and why do we need it now?

24 Oct 2019, 17:30–18:30

In the face of the seemingly intractable existential problems we currently encounter on this planet, I argue, we need to systematically develop protocols to enhance emotional and social intelligence and creativity in the human individual. These non-invasive protocols would be based on neuroplasticity and long-term potentiation, and aim at neural retraining for emotion self-regulation and optimal development in the individual regarded as a biological cybernetic system. Algorithmic Human development seeks to aid individual human beings to trade their instinctual or learned traits of destructive aggression for individual and social creativity. Supported by several computational models, including a Hebbian artificial network and the Free Energy Principle, our Self-Attachment protocol, based on the interaction of a rational (Adult) and an emotional (Child) internal agent, has parallels with Machine Learning as it employs the three basic paradigms of “substitution”, “iteration” and “prior updating” in the human individual. I will give the results of a long-term pilot project on the subject and then describe a laughter protocol which directly challenges old and entrenched beliefs of the Bayesian brain about past misfortunes and tragedies. I will finally explain how, during my detention and confinement for eight months last year, I succeeded to extend the domain of this protocol to “existing conditions” and turn a very difficult situation into a highly productive opportunity.

Prof Abbas Edalat did his PhD in Dynamical Systems at University of Warwick. For the past 25 years, he has developed connections between Domain Theory, a mathematical and logical theory of programming languages, with several areas of mathematical computation including exact computation, computational geometry, measure and integration theory, differential calculus, solution of ODE’s, hybrid systems and optimisation.
Chirality and the future of electronics
A Friends of Imperial College lecture
19 November, 19:00–20:30

Under the right circumstances, carbon-based (organic) small molecules and polymers can act as semiconductors, which we are using to make novel electronic devices: solar panels, light emitting diodes, biological sensors, stretchable screens, conductive thread and stick-on glucose sensors.

*Professor Wade is well known for her passionate support for women in science, technology, engineering and mathematics and her campaign to tackle gender bias on Wikipedia*

This is a Friends of Imperial event, therefore if you want a free ticket you need to let Ms Joy know as soon as possible.

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Geography Opportunities

**A Level Study Day**
2 December 2019, 10.45am-3.30pm

Please arrive for registration at 10.15am

Royal Geographical Society (with IBG), 1 Kensington Gore, London, SW7 2AR

From £20.00 per person Packed lunch provided for teachers and students.

For more information, go to https://www.rgs.org/events/autumn-2019/a-level-study-day/

**GIS Day in partnership with Esri UK**
19 November 2019, 11.00am-3.00pm

Doors open at 10.30am

Royal Geographical Society (with IBG), 1 Kensington Gore, London, SW7 2AR

From £5.00 per person

For more information go to:
Student Residential Accommodation in Global Cities: Improving student experience and engagement

10 October 2019, 4:30–6:00pm

Starting university is a pivotal moment in the lives of young people. Moving into a new home in an unfamiliar city or country, surrounded by new people, is often their first taste of independence. But what effect does student accommodation have on the student experience and their engagement with their studies? How can accommodation providers create a welcoming environment to attract residents year after year?

In a pioneering academic study into student accommodation in global cities, UCL’s Global Centre for Learning Environments in the Bartlett Real Estate Institute, has identified best practice in ensuring a positive student experience and engagement within student residential accommodation (SRA), and key aspects of the role of SRA providers and operators in achieving that end. Student Living by Sodexo sponsored the research.

Now, Student Living by Sodexo and UCL’s Global Centre for Learning Environments warmly invite you to a symposium to hear more about the research, and have a chance to discuss this topic with fellow industry thought leaders. A networking reception and optional tour of UCL’s innovative space at Here East will follow.
What can the NHS learn from healthcare in low income countries?

09 Oct 2019, 18:30–20:00

Did you know that a condom, a catheter and a piece of string can be used to create a life-saving medical device? The Bangladeshi obstetrician Dr. Sayeba Akther has deployed these three low-cost and widely available materials to create an intrauterine balloon tamponade, which can stanch bleeding following childbirth, providing a lifeline for many women in rural Bangladesh. Across parts of Uganda, doctors use small snippets of mosquito nets to treat hernias, with no difference in health outcomes compared to the more expensive surgical mesh used in the U.K.

Should the NHS be considering these interventions as well?

Referred to as frugal innovations, these low-cost interventions and solutions are often the ingenious ideas of local entrepreneurs who have been doing more with less for longer. Many of these frugal innovations have the potential to spill over from low-income settings into high-income settings, challenging the idea of western dominance in healthcare, and proving that we have much to learn from innovators in resource-scarce settings. However, there are several unique barriers to adoption in the NHS, which means that these innovations are often discounted at an early stage.

Mark Skopec is part of a team of researchers in Imperial’s Department of Primary Care and Public Health identifying ingenious new approaches to healthcare from across the globe. In his Science Café talks at Imperial Lates: Science without borders, he will explore what we can learn from low-income countries when it comes to healthcare, and why we evaluate research from certain contexts differently. He will argue that to truly benefit from a two-way exchange of global knowledge, we must address our implicit biases against research and innovation from the developing world.

Talks will start in the College Café at: 6:30pm - 7:10pm - 7:45pm
Geoffrey Nice QC has practised as a barrister since 1971. He worked at the International Criminal Tribunal for the Former Yugoslavia – the ICTY – between 1998 and 2006 and led the prosecution of Slobodan Milošević, former President of Serbia. Much of his work since has been connected to cases before the permanent International Criminal Court – Sudan, Kenya, Libya – or pro bono for victims groups – Iran, Burma, North Korea – whose cases cannot get to any international court.

Martin Elliott was Gresham Professor of Physic from 2014-2018. He is Co-Medical Director at The Great Ormond Street Hospital for Children, London (GOSH). He led the cardiorespiratory and thoracic transplant teams at GOSH for many years, and established, and is Director of the National Service for Severe Tracheal Disease in Children.

This lecture reports on the findings of The Independent Tribunal into Forced Organ Harvesting from Prisoners of Conscience in China (June 2019), which examined reports of state-sponsored murder for the harvesting and sale of organs.

The very need for a People’s Tribunal to deal with an issue of this gravity reflects the timidity of governments when asked to deal with the criminal behaviour of another state. The tribunal’s conclusions will be set within the ethical standards expected of medical practitioners around the world.

Developing an effective HIV vaccine: what do we need and when will we get there?

24 October, 17:00–18:15

Format: 60-minute discussion with 15 minutes of Q&A

Have a question for the panel? Register for the webinar now.

Ask your question in the registration form before 18 October 2019.

EAVI2020 researchers will tackle these challenging questions in a roundtable discussion. This webinar, on the challenges of HIV vaccine development will take place on 24 October and we welcome anyone interested in vaccine development to register.

First attempts to develop a vaccine against HIV started in the 1980s. Thirty years on and we still do not have a viable vaccine. Why has it been so difficult? What is needed to realise the goal of an effective vaccine? Is the development of a vaccine still a priority?

Facilitator, Dr Roger Tatoud - International AIDS Society

Prof Robin Shattock - Imperial College London

Dr Roger le Grand - Commissariat à l’énergie atomique et aux énergies alternatives (CEA)
Science without borders

09 Oct 2019, 18:00–21:00

Imperial Lates celebrate the latest in science and engineering at Imperial College London - bringing the public together with world leading minds in their respective fields, who not only love what they do, but also love sharing their work with new audiences.

A perfect evening’s entertainment for adults of all ages and backgrounds. Anyone with a curious mind is welcome to get hands on with our research, brought to life through live demonstrations, creative workshops, interactive experiments and inspiring talks. Pick the brains of the people behind the ideas, innovations and breakthroughs to discover how their work could impact our society and change our futures.

Register for this Imperial Lates to receive a preview of the full programme of live demonstrations, workshops and talks, and help us track attendance numbers.

Please note that registration alone does not guarantee seats for our talks, tours or workshops. However those who have pre-registered will be given the first opportunity to book places on anything with limited spaces.

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Black holes, entropy and strings

14 Oct 2019, 19:00–20:30

Professor Jerome Gauntlett, Chair in Theoretical Physics, Department of Physics

Summary

They are predictions of Einstein’s theory of General Relativity, our best theory of gravity, and they have recently been directly observed using gravitational waves.

By incorporating quantum theory we know that black holes have entropy, a concept that was first introduced to understand the properties of heat.

This remarkable fact is considered to be a key clue for elucidating the fundamental laws of physics, which may well involve string theory.

This event is organised by Friends of Imperial. If you wish to attend, let Ms Joy know as soon as possible and she should be able to arrange free tickets for you.
THE POLITICS OF THE POLICE - Book Launch
16 October 2019, 18:00–20:30

‘This revised, enlarged and updated edition of a classic in criminology offers an insightful analysis of the most critical issues in contemporary law enforcement. Bringing together several disciplines and resolutely adopting a global perspective, the book is an indispensable resource for social scientists interested in this contentious topic.’ (Didier Fassin, Professor of Social Science at the Institute for Advanced Study, Princeton)

‘The Politics of the Police is a classic. This edition adds a sophisticated analysis of global issues to reveal the critical importance of political and socioeconomic context to democratic policing and the challenges posed by neoliberalism. This is essential reading for anyone interested in why politics matters to policing.’ (Michelle D. Bonner, Professor, Department of Political Science, University of Victoria)

To celebrate the publication of the fifth edition of The Politics of the Police, King’s College London (in collaboration the LSE Mannheim Centre and the British Society of Criminology) will host a book launch and symposium.

The event will be chaired by Professor Betsy Stanko (former director of research for the MPS) with commentaries from Dr Alison Wakefield (Portsmouth), Professor Jenny Fleming (Southampton, editor of Policing and Society) and Professor Ben Bradford (UCL). The event will be followed by a drinks reception.

REGISTER WITH EVENTBRITE TO ATTEND

Frederick Mostert’s Inaugural Lecture - Free Speech and Internet Regulation
15 October 2019, 18:30–20:00

Free speech has always been dependent on the healthy exchange of opinions on public forums, but shaping these forums to the challenging contours of today’s online world presents unique challenges. Social media platforms serve as the prime source of knowledge and human thought for many users and have taken on the identity of ‘the modern public square’, as noted by the US Federal Supreme Court. Governments have presented new regulatory proposals for privately-controlled platforms virtually overnight in contrast to their traditional hands-off approach to platform regulation. The Internet Safety Report in the UK, the EU Directive on Copyright in the Digital Single Market and the US President’s Memorandum on Combating Trafficking in Counterfeit and Pirated Goods, and a slew of other regulatory proposals were produced within an extraordinarily short space of time. The lecture will suggest solutions to the inherent conflict between free speech and regulation on the internet by analysing digital due process in cyberspace.

Frederick is Professor of Practice at The Dickson Poon School of Law, King’s College, London, a Research Fellow at the Oxford Intellectual Property Research Centre, University of Oxford, and a Research Fellow at Tsinghua University, Beijing. He is the founder of the Digital Scholarship Institute and Digital Communities Lab. He was inducted into the Intellectual Property Hall of Fame in 2015, which honours those who have helped to establish intellectual property as one of the key business assets of the 21st century.

Frederick is principal author and editor of Famous and Well-known Marks – An International Analysis. He is also the author of numerous articles and other publications, including From Edison to iPod – Protect Your Ideas. His op-eds have appeared in the Financial Times and the South China Morning Post. He is consulted by news organisations and his publications have been cited by courts throughout the world.
‘Got Quality?: The Urgent Need to Focus on Quality and Not Solely Costs.

7 October 2019, 17:00–18:30

The U.S. health care system is undergoing a transition from a fee-for-service payment system, where health care reimbursement is based on procedures, physician visits or hospitalisations, to a payment model based on value. Value is based on both the cost and quality of care. As the USA and other nations make this transition, it is crucial that we develop actionable quality measures which examine patient and family outcomes, not just care processes. In this lecture, the challenges of measuring the quality of care for seriously ill and dying persons will be discussed, using lessons learned from developed quality measures for public reporting in the USA.

Joan M Teno is a physician health services researcher with over 25 years of experience conducting research that has impacted and transformed end-of-life care in the U.S. Dr Teno was a hospice medical director for 18 years. In 2018, Dr Teno was named one of the visionaries in hospice and palliative care. Throughout her career, she has been one of the leaders in defining and operationalising how we measure the quality of care for those who are dying through bereaved family member surveys and use of administrative data.

Opening remarks by Professor Sir Robert Lechler, Executive Director, King’s Health Partners, Vice-principal (Health), King’s College London. Closing remarks by John McGrath, Chairman at Cicely Saunders International

This event is free to attend, as places are limited, we ask that you please RSVP to register your place, emailing csi.events@kcl.ac.uk or phoning 0207 848 5587.
Women in Mind is a series of events by the Women and Mental Health Special Interest Group, Royal College of Psychiatrists, in collaboration with the Institute of Psychiatry, Psychology & Neuroscience, King’s College London, aiming to engage health professionals and the public in debate and discussion about challenges to women’s mental health across the life cycle.

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**Combatting Inequality: tackling unfairness in wealth, jobs and care**

Monday 07 October 2019 6:30pm to 8:30pm

*Hosted by the International Inequalities Institute*

The III is celebrating its fourth year of work by launching three new themes which focus our work in the areas where we see the issue of inequality debate taking on new intensity and importance. The three theme leaders will each introduce their themes and explain their importance, leading to a panel discussion.

Mike Savage will lay out how analyses of inequality require us to engage with wealth as well as income inequality, and how this points to the power of elites. Beverley Skeggs will reflect on how care work is a crucial part of the global economy, and how inequalities of race, gender and class are bound up with its global chains. David Soskice will discuss how cities are becoming central loci of inequality and how we need to understand better how processes of segregation are related to transformations in the knowledge economy.

This event will therefore introduce the future work of the III and will be a great opportunity to learn more about the gravity of inequality challenges today.

**This event is free and open to all, on a first come, first serve basis.**

On 15 October, join Sara Shamma; Rachel Witkin, Helen Bamber Foundation; Professor Parosha Chandran, The Dickson Poon School of Law (King’s College London), and Dr Siân Oram, Institute of Psychiatry, Psychology & Neuroscience (IoPPN) for a panel discussion as part of the Sara Shamma: Modern Slavery exhibition programme.

After becoming aware of the display and sale of women and girls in slave markets in Syria and Iraq, Shamma was moved to explore and draw attention to the psychological impact of modern slavery. Through interviews with survivors of modern slavery and professionals working in the field, the artist brings a raw and unique artistic perspective to one of today’s greatest challenges.

Part of Sara Shamma: Modern Slavery

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Millennials are making a splash in U.S. politics and could play a key role in the 2020 Presidential campaign and beyond. Yet Millennials’ political views--and the economic experiences that shape those views--remain poorly understood.

Joseph C. Sternberg (@josephsternberg), author of The Theft of a Decade: How the Baby Boomers Stole the Millennials’ Economic Future, will present an overview of Millennial economics in America and of how the Great Recession particularly affected Millennials in ways that continue to resonate even as economic conditions have improved. Understanding these trends is important to discerning what Millennial voters want, and how effectively politicians of any party are catering to them ahead of the 2020 election.

This event is free and open to all, on a first come, first serve basis.

There is a rich tradition of claiming therapeutic powers for philosophy, but if philosophy is the love of wisdom, is ignorance bliss? Is philosophy only about sharp arguments and subtle distinctions, or can it help us find better ways to live? Join us as we discuss whether thinking philosophically can be a form of self-help.

Beverley Clack is Professor in Philosophy, Oxford Brookes.
Molly Macdonald is Lecturer in Literary Theory, QMUL.
John Skorupski is Professor of Moral Philosophy, St. Andrews.
Shahidha Bari (@ShahidhaBari) is Fellow, Forum for Philosophy and Professor of Fashion Cultures, UAL.

This event is free and open to all, on a first come, first serve basis.
Accountability and Transparency in Government: The Duty of Parliament to Hold the Prime Minister to Account

Annual Mishcon Lecture 2019 - Dame Margaret Hodge MP

15 October 2019, 6:15–8:15 pm

Margaret became the Labour Member of Parliament for Barking in June 1994. She has served in government, holding portfolios across education, work and pensions, business and culture. In 2010, Margaret also became the first elected Chair of the Public Accounts Committee and was also its first female Chair. Today, Margaret is the Chair of the APPG on Responsible Tax as well as the Chair for organisations in the arts and higher education.

Schedule

18:15 Reception
19:00 Lecture begins
20:00 Lecture ends
In this talk, coinciding with the UNESCO International Year of the Periodic Table, Dr Wilkins will discuss the astrophysical origins of the chemical elements, almost all of which have an origin ranging from the big bang, to exploding white dwarfs, the collapse of massive stars, and the merger of ultra-compact objects, neutron stars.

This final mechanism is responsible for many of the heaviest and rarest elements including gold, silver, and uranium, and was only recently confirmed through observations of a merger event first identified using gravitational waves.

Stephen is a Senior Lecturer in Astronomy at the University of Sussex.