



2018-2019
THE SPANNER
CGCU FRESHER'S GUIDE



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@IC_CGCU



ic_cgcu



cgcu.net

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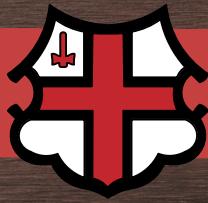
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Arranged & edited by Fatima Khan.
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Thomas Cross & Federico Trotta.
Graphics designed by freepik.com



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updates!



I would like to extend a very warm welcome to all of you to the Faculty of Engineering at Imperial College London. You are joining one of the most prestigious engineering schools in the world. Many congratulations!

Over the century of its existence the College has educated men and women who have progressed to be leaders in all walks of life. The alumni around the world who have studied engineering at Imperial all talk very warmly of their time here and the enormous influence it had on their subsequent career. Indeed, I am one such alumnus and can personally vouch for the many opportunities an Imperial engineering education can provide.

It is now your turn to take full advantage of the opportunities that are available to you. Engineering is about identifying (not always as easy as it looks) and solving the important problems that face us all today, in areas such as climate change, energy, health, transport and clean water. Although you will be studying one particular aspect of engineering, dealing with these problems requires a holistic approach, so part of your education will be to see how different disciplines can work together to solve a challenge.

This is one of the many reasons why it is important for you to immerse yourself fully in the life of the College. By taking part in activities beyond those of your selected degree course you will not just enjoy yourself, you will be enriched by the wide cultural and technical diversity that is a key feature of life here.

I very much hope that your time at Imperial will be fulfilling and that you will subsequently use what you have learnt to contribute to the well-being of the whole world.

Professor Nigel Brandon OBE FREng
Dean, Faculty of Engineering



On behalf of the whole City and Guilds College Union committee, welcome to Imperial College! All your hard work has paid off, and you're now set to join of some of the best students the world has to offer at a truly world-class institution.

While you'll also be receiving lots of material from Imperial College Union, the Spanner has been designed just for students of the Faculty of Engineering by CGCU officers, who represent you. It's filled with information, introductions and interesting titbits to give you the perfect introduction to your life as an engineer at Imperial.

In the CGCU we're dedicated to making your life at Imperial better and supporting you through your studies. As a completely student-run union, we organise events for the Faculty's students, head up a variety of clubs and societies and have a team working to address academic and welfare related issues you might have during your time at Imperial.

Take your time and read through the booklet – it'll give you a feel for who we are, what we do, and what's coming up this year. If you have any questions, whatever the subject, please don't hesitate to contact me, or any of the committee members – we're a friendly bunch. You're also very welcome at our office in Room 350 of the City and Guilds Building. And make sure to come and grab some freebies (and try to lift our mascots) at our Freshers' Fair stall!

CGCU love!

Andrew Hill
President, City and Guilds College Union





CGCU's Annual

Welcome Dinner

Millennium Gloucester Hotel

27th October 2018

6:30 pm

Ticket includes a three course meal, wine, entertainment & afterparty



WHAT DOES THE CGCU DO?

A QUICK INTRO

The CGCU (City & Guilds College Union) represents the interests of over 4000 students across 8 departments.

As a student-run union, we're responsible for organising events for the Engineering Faculty, heading up the clubs and societies, and addressing any issues you have during your time here.

EDUCATION

The Vice President (Education) works alongside the Education Officer. They help departments in the CGCU to resolve issues relating to academia, and improve the general standard of teaching within these Faculties. This will include working with departmental representatives to help guide them and ensure they have appropriate access to training and resources. The VPE and EO also facilitate communication within the departments to help resolve existing issues and those to come in the future.

WELLBEING

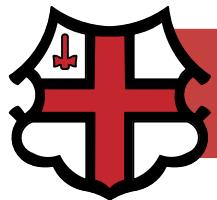
The CGCU also represents the non-academic concerns of students, including, but not limited to sexual health, mental health, pressure and expectations, LGBT+ representation, healthy eating and finances. Campaigns are held throughout the year by ICU and CGCU to raise awareness about topical issues.

SOCIALS & EVENTS

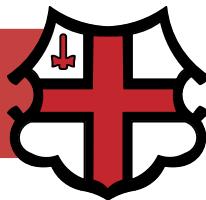
One of our duties as the CGCU is giving you the chance to take time off from your studies. Our events give you the unique opportunity to meet and socialise with other engineers from different disciplines in a mixture of environments.

REPRESENTATION

As an engineering student at Imperial you are automatically both a member of the CGCU and the Imperial College Union. Historically, the ICU was a joint body of the constituent unions at Imperial including the CGCU, the RSMU (Royal School of Mines Union) and the RCSU (Royal College of Science Union). Run by the elected Officer Trustees, it is now the main organisation for student representation and activities at Imperial, as well as running several bars across the campuses. Additionally, you will have Dep Reps (Department Representative), and Wellbeing Reps for your year who are always on hand to address any issues course related issues. Find out more about the Academic Representation Network at bit.ly/ARNimperial



WHO'S WHO IN THE CGCU?



President



Andrew Hill
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VP (Operations)



Federico Trotta
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VP (Wellbeing)



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VP (Education)



Joel Bilsdorfer
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VP (Activities)



Alessandro Bonardi
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Bolt Bearer



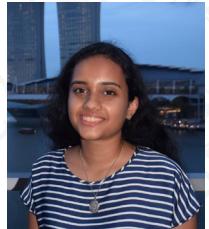
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Spanner Bearer



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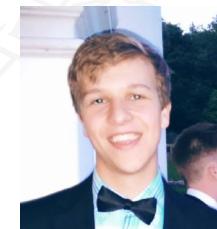
Robert Hyde
guilds.events@ic.ac.uk

Wellbeing Officer



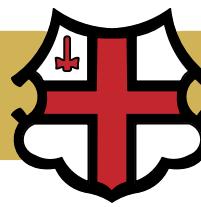
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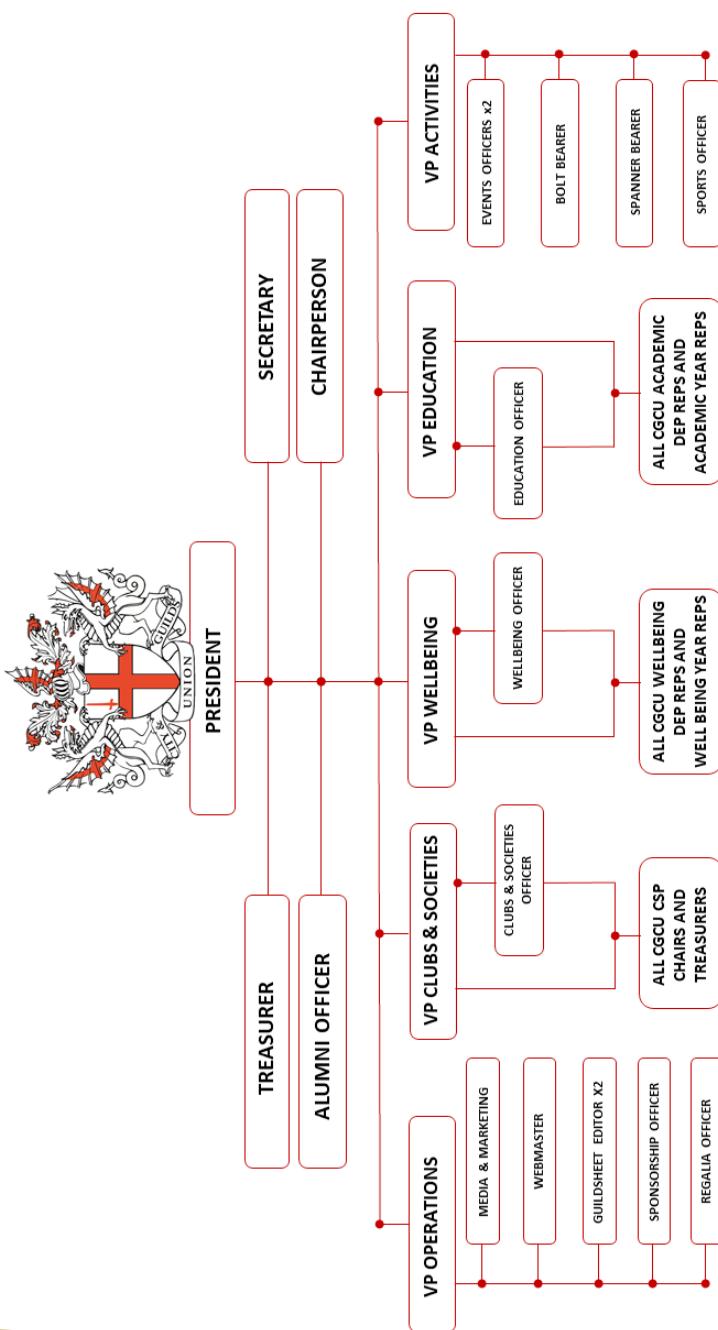


Kian Mayne
guilds.webmaster@ic.ac.uk

COMMITTEE STRUCTURE



EDUCATION & DEP REPS



WHAT DOES THE VP EDUCATION & EDUCATION OFFICER DO?

At the heart of CGCU, the VP (Education) and Education Officer's roles are to solve academic issues and help to improve teaching standards across the Faculty of Engineering. They achieve this by working closely with Academic Dep Reps and Faculty staff. The roles also include constant communication with Imperial College Union's Deputy President (Education) to ensure that the Faculty of Engineering is heading in the right direction.

EDUCATION BOARD

The CGCU VP (Education) attends Faculty Teaching Committee meetings, Faculty Education Committee meetings and Student-Staff departmental meetings each term. They also sit on the Education and Representation Board, Union Council, and the CGCU Committee, which meet frequently.

WHAT DO DEPARTMENT REPRESENTATIVES DO?

Department Representatives (Dep Reps) are elected for both Education and Welfare. They are responsible for liaising with College staff regarding issues raised by Year Reps (who are elected during Autumn Elections). They are responsible for receiving and collating student feedback relating to their department and passing this information to the CGCU representatives and relevant staff as appropriate.

WHAT TO DO IF YOU HAVE AN ISSUE WITH COURSE TEACHING / WELFARE

Your first point of contact is your Academic or Wellbeing Year Rep. You can raise the issue with them and they will feed it back to relevant staff or CGCU representatives.



remember to use protection

GET FREE WELFARE SUPPLIES FROM THE CGCU
OFFICE (CAGB 350) OR EMAIL
GUILDS.VPW@IC.AC.UK TO ARRANGE A PICKUP.
ALL DONE WITH DISCRETION.



WELLBEING

WHAT DOES THE VP WELLBEING & WELLBEING OFFICER DO?

The VP Wellbeing (VPW) and the Wellbeing Officer (WO) work alongside each other to represent the non-academic concerns of all Undergraduate engineering students, whatever those concerns may be.

These include, but are not limited to:

- Sexual assault and consent issues,
- Sexual health,
- Mental health,
- Perceived pressures/expectations,
- LGBT+ representation,
- Healthy eating,
- Finances,

or any other topical issue arising during your time.



They are also able to signpost you to relevant internal and external support services, should you ask for advice.

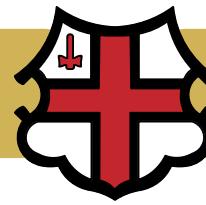
WELLBEING CAMPAIGNS

Campaigns throughout the year are organised by the VPW as well as the WO. Examples of past campaigns include a welfare supply stand on Valentine's day, as well as College-wide ones such as Imperial Sleep Week, LGBT+ History Month and animal petting sessions.

WELFARE BOARD

The VPW and WO sit on the Community and Welfare Board (CWB) and Union Council. Here, they discuss College-wide issues and have an impact on decision-making regarding welfare.

TRADITIONS



HISTORY & MASCOTS

THE BOOMALAKA

The Boomalaka is the tribal chant of the Guilds. It originates from Maori Culture, and is intended to strike fear into the hearts of any non-City and Guilds College people. It was best used to shout down the Royal College of Science Union's now-defunct Kangela. The Boomalaka may only be started by past or present Presidents, Vice-Presidents and Honorary Secretaries of City & Guilds College Union.

President ONLY:

Ladies and Gentlemen of the Guilds,
Please be upstanding...
Ladies and Gentlemen of the Guilds,
Are you in good voice?

ALL:
YES!

President:

Then lets have a BOOMALAKA!

ALL:

One, Two, Three....
Boomalaka, Boomalaka, Ra Ra Ra!
Zingalaka, Zingalaka Ya, Ya, Ya!
Boomalaka, Zingalaka, Who are we?
We are, we are C & G!
Oooo-ay, Oooo-ay, Ooo-ay,*
Ra Ra Ra, Hooo-ray! *

Note: The lines marked * are the ones in which Guildsmen (people of the CGCU) are expected to punch their fists in the air.

A BRIEF HISTORY OF THE CGCU

In 1851, the Royal Commission was put in charge of spending the large profit made by the Great Exhibition that year. As a result, the three museums in South Kensington, RSM, RCS, the Royal Albert Hall and the Royal Colleges of Art and Music were built.

The City & Guilds Institute was set up in 1878 to establish a national standard for technical education and in 1884, after talks with the Royal Commission, they opened the Central Technical College on Exhibition Road. The students soon realised the need for a Union and thus, in 1898, the CGCU was born.

Under the Royal Charter of Edward VII, RCS and RSM merged to create Imperial College of Science and Technology in 1907. Three years later, the Central Technical College (which had changed its name to City & Guilds College) joined Imperial too.

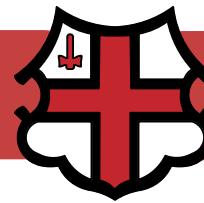
MASCOTS

Each constituent union at Imperial has at least one violate mascot (a mascot that can be stolen by a rival constituent union). We have four mascots, the most renowned of which are the Bolt and Spanner (our violate mascots). Spanner is 29kg of solid bronze; one end fits the bolts of London Bridge whilst the other fits the bolts on the wheels of Bo' (more about him later). Bolt is 31kg and around a foot long.

We also have two inviolate mascots in the form of Boanerges (known as Bo') and Derrick. Bo' is a 1902 James and Browne automobile and is thought to be the last of his kind. Derrick is a 1926 Ner-a-Car motorcycle. Both are maintained by Team Bo', which you can find out more about at www.facebook.com/teambo1902/



THE CGCA



DEPARTMENT SOCIETIES

WHAT IS THE CGCA?

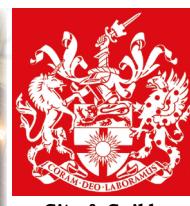
The City & Guilds College Association (CGCA) is the largest constituent college alumni body of Imperial College London. Established in 1897, the Association now has more than 4,000 members around the world from a myriad of professions. One of its prime objectives is the advancement of the Faculty of Engineering and the well-being of its students.

Joining the CGCA after graduation is good way to maintain links and network with other members and stay in touch with old friends and Imperial life. Its informal network can prove extremely valuable as a source of information and contacts. As a member, you will also be kept updated about events like the decade reunion lunches and the Annual Dinner.

THE OLD CENTRALIANS TRUST

The charitable arm of the CGCA is the Old Centralians Trust, which provides generous financial help to students through a wide variety of avenues. Since 1965, well over one hundred students have been saved financially in the face of personal hardship; in most cases the Trust's assistance has made possible the completion of studies which would otherwise have had to be abandoned. Other disbursements go out as funding for research experience (UROP), accommodation bursaries as well as support for travel and work experience projects.

If you are interested in learning more about the CGCA and the OC Trust, head to their website cgca.org.uk, or contact Sorcha, your Alumni Officer.



City & Guilds
College Association



You are automatically enrolled into your department's society^{**}, free of charge. However, you may join any other departmental society- usually for a small fee. Below are the societies that are represented by the CGCU. Throughout the year, your DepSoc (Department Society) will keep you up-to-date on events they've organised, especially tailored for your department. You should receive more information from them soon.

AeroSoc
(Aeronautics)



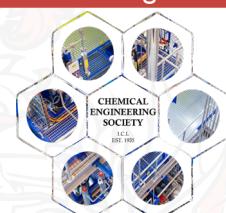
aerosoc@ic.ac.uk
aerosoc.co.uk

ICBE
(Bioengineering)



bioengsoc@ic.ac.uk
icbe.co.uk

ChemEngSoc
(Chemical Engineering)



chemengsoc@ic.ac.uk
chemengsoc.com

CivSoc
(Civil Engineering)



civsoc@ic.ac.uk
civsoc.co.uk

DoCSoc
(Computing)



docsoc@ic.ac.uk
docsoc.co.uk

DesSoc
(Design Engineering)



dessoc@ic.ac.uk
dessoc.com

EESoc
(Electrical & Electronic Engineering)



eesoc@ic.ac.uk
eesoc.com

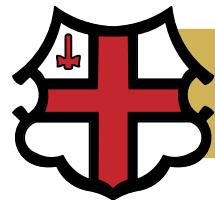
MechSoc
(Mechanical Engineering)



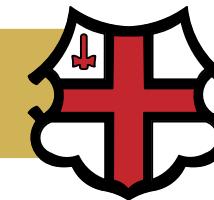
mechsoc@ic.ac.uk
mechsoc.com

* EIE students are enrolled in both EESoc and DoCSoc.

+ JMC students are enrolled in both DoCSoc and MathSoc, which is represented by the Royal College of Science Union.



CLUBS & SOCIETIES



C&G MOTOR CLUB

[fb.com/groups/cgcumotor](https://www.facebook.com/groups/cgcumotor)
motor@ic.ac.uk

If you're interested in cars, motorsport, or just getting your hands dirty, the Motor Club is for you! We provide a range of motor related activities at rock bottom prices and accessible to everyone, regardless of experience.

The club runs weekly Wednesday afternoon sessions in our garage on Unwin Road, where we can be found maintaining our karts and driving around in our very own road legal Classic Mini. Whether you've never previously driven, or a keen racer, C&G Motor Club caters for all. No previous mechanical knowledge is needed - all that we ask is for you to turn up with enthusiasm.

We also run regular karting trips (both with our own karts and track rentals) and offer our members the chance to compete in the British Universities Karting Championship, a prestigious national competition.

If you're interested, drop us an email or get in touch with us on our Facebook page.

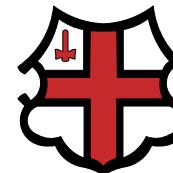


IC DATA SCIENCE SOCIETY

[fb.com/icdatasoc](https://www.facebook.com/icdatasoc)
icdss@ic.ac.uk

Are you a computing student who wants to apply your coding skills in finance or in scientific research? A mathematics student who wants to do something practical with your number skills? A science/engineering student interested in how computational methods are driving forward research in your field? Do you want prestigious companies like Facebook, Amazon, GSK, BCG, JP Morgan, HSBC, PwC, and others to aggressively offer you opportunities before you even have the chance to open the job portal? Are you bloody smart?

The Imperial College Data Science Society (ICDSS) is the place for you. Data science sits at the intersection of AI/Machine Learning, big data, business, and scientific research. We train students in applying various machine learning models to analyze data for actionable insights, and give you the chance to work on projects from well-known companies to build your resume. You'll work hard, play hard, and earn hard with ICDSS.



C&G RUGBY CLUB

cgcu-rugby@ic.ac.uk

C&G Rugby is the biggest and most social faculty for rugby! Players of any skill level are open to join, and little commitment is required from you. It is a social club, and so it is in our best interest to make sure that the players enjoy their time at this club.

A few of the socials that will occur throughout the year are the Round Robin Faculty Tournament, our famous annual Gin & Rugby tour to Oxford and the end of year tour to Santander Beach Tournament in Spain.

If you want to get involved, come meet us at our Freshers' Fair stall and sign up to the mailing list.



IC ROBOTICS

[fb.com/icrobotics](https://www.facebook.com/icrobotics)
contact@icrobotics.co.uk

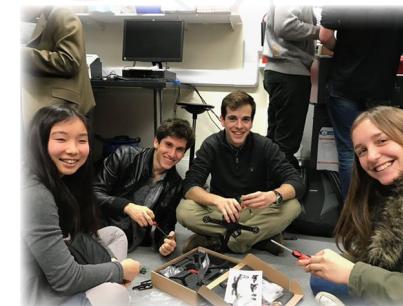
Imperial College Robotics Society aims to bring all roboticists, makers and general tinkerers together, and to provide people with facilities to bring their ideas to life.

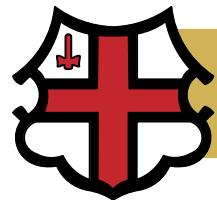
We have laser cutting, 3D printing, soldering, and general workshop equipment available for use, which our members have used for projects ranging from biometric trackers, to model spaceships and lightsabers.

The society runs and gets involved in a variety of projects for members of all abilities, from our sell-out beginners "Robotics 101" course, to participating in more advanced competitions such as PiWars or Eurobot.

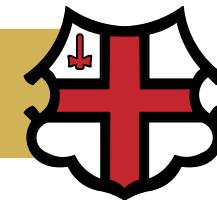
In addition, we host a range of social events for members to get to know their fellow roboticists better including Christmas dinners, ice skating trips, and movie nights (robot themed, of course!).

If you fancy getting involved, find us in the level 5 Electronic Engineering labs on Wednesday afternoons (though many of us practically live there, so any time really).





CLUBS & SOCIETIES



**IC STUDENTS FOR
THE EXPLORATION
AND DEVELOPMENT
OF SPACE**

[fb.com/ICSEDS](https://www.facebook.com/ICSEDS)
icseeds@imperial.ac.uk



**ENGINEERING
CHANGE**

[fb.com/EngChangeIC](https://www.facebook.com/EngChangeIC)
ewbord@ic.ac.uk



Also known as Space Society, ICSEDS (IC Students for the Exploration and Development of Space) is composed of Imperial students who all share a love for the challenges and opportunities that await beyond the thin blue line.

Our society is open to anyone regardless of course or skill level, whether you want to be an astronaut or just want to shoot stuff into the sky. If you know nothing, we'll teach you. If you know loads, you can teach us. We work on real space projects: we design, build and launch everything from rockets and balloons, to even rovers!

We also run trips and events, and we do outreach in conjunction with UKSEDS and the UK Space Design Competition. As a branch of UKSEDS, the UK's students space society, we have access to national space events, industry partnerships, and a host of unique opportunities.

Inspired by Engineers Without Borders, Engineering Change is a student led society looking to improve people's lives through well designed products and systems. We provide the opportunity for students to not only use their expertise to make a real global impact but to gain experience in the process.

With projects in fields ranging from software to infrastructure, for clients based in locations such as the Philippines and Mozambique, we aim to change the world for the better. Our project teams are growing fast with more talented members than ever before.

We also offer outreach opportunities to promote sustainable international development to schools. Should we gain enough volunteers this year, we intend to organise a hackathon to encourage younger students to pursue STEM careers.

If this sounds like something you might be interested in, come down to our Freshers' stall, follow us on Facebook, or ping us an email! The more the merrier!

Drone Soc

IC DRONE SOC

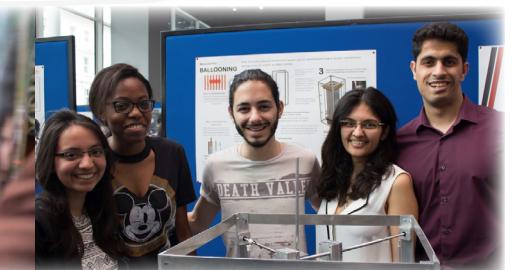
[fb.com/imperial-dronesoc](https://www.facebook.com/imperial-dronesoc)
imperialdronesoc@gmail.com

Do you want to see the world from above? Do you want to create your own flying vehicle? Do you have grand visions for the humanity of tomorrow? Come explore the exciting field of aerial robotics with DroneSoc! We're a hotspot for drone enthusiasts around London, building the future of one of the world's most exciting industries with people just like you.

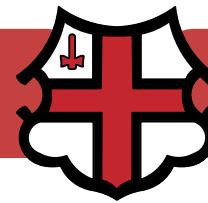
We aim to: (1) Educate – we teach you how drones fly, how to build them and how to make use of them. (2) Explore – we explain when and why we should use drones by discussing these ideas with industry disruptors outside Imperial. We can even help you arrange an internship with them! (3) Expand – we do a load of outreach events and voluntary work – a lot of them with schoolkids around London with the aim of inspiring a passion for STEM - to help people understand why drones are useful.

This year, we're running QuadBasics (a six-week course on quadcopter construction), PlaneBasics (another six-week course on building fixed-wing UAVs), DroneX (a talk series by external experts), pop-up flying events and Advanced Projects (super intense and cool technical endeavours) among others. As a member, you will have access to all our equipment such as chargers, 3D printers, radios, FPV goggles and – of course – drones. You'll also get the chance to volunteer at our outreach events and network with our industry partners. If you're an exceptional pilot, you can even represent the College at racing competitions!

Feel free to approach the committee if you have any ideas or projects you want to work on and we'll try to make it happen. Find us at Freshers' Fair, on Facebook, or even just email us.



UPCOMING EVENTS



TOP TIPS

OCTOBER

03

FRESHERS' FAIR

Come and meet us at our stand! You can also find out about all the clubs and societies at Imperial, and sign up to your favourites.

04

VOLUNTEER FAIR

Interested in volunteering during your time at university? Meet charities and student projects and find your perfect volunteer role.

10

27

Like our facebook page and follow our social media accounts for more information about upcoming events and ticket releases!

SPORTS TRIALS

Want to pick up a new sport? Or just keep up with a sport you were doing before coming to Imperial? Try out for a team!

CGCU WELCOME DINNER

Start your year the right way- join us at the CGCU Annual Welcome Dinner! Receive a complimentary welcome drink and chat with your friends during a reception, before heading to the main room for a three course meal with wine.



Download Citymapper. It's a great app for getting around London - perfect for those night buses!

Link your 16-25 Railcard to your Oyster Card at the station to save money on off-peak Tube travel.



Get to know the older years of your course to help you if you're having a tough time - love your college Mums and Dads!



Get following some Twitter and Facebook pages for free/cheap London activities and events. @SkintLondon and Secret London are great ones!



Pay attention to your coursework, and be sure to leave the night before a deadline clear. It can contribute a lot to your overall grade!



Look around online for guest list sign-ups for cheap entries to some clubs.



Hit Freshers' Fair and the Careers Fairs hard!



Always make sure your friends text you when they get home after a night out - better safe than sorry.



Learn how to budget and manage your money. Getting a Monzo card or budgeting app can help a lot.



Join a sports society or get a gym membership! Staying active is important for your overall wellbeing.



Have fun! And remember to drink responsibly.



IMPORTANT NUMBERS

CRIME & EMERGENCIES

On Campus (24hrs):	4444
Security (24hrs):	0207 589 1000
LGBT Police Liaison Officer (24hrs):	0773 825 9879
Sexual Assault National Helpline (12:00-14:30 & 19:00-21:30 every day):	0808 802 9999
National Domestic Violence Helpline (24hrs):	0808 2000 247

YOUR HEALTH

NHS 111 service (24hrs all year, for non emergency medical advice):	111
College Health Centre (24hrs):	0207 584 6301
John Hunter Sexual Health Clinic (08:30-17:30 Mon-Fri except 11:00-17:30 Wed):	0203 315 6699

NEED TO TALK?

Nightline (run by students; 18:00-08:00):	0207 631 0101
Samaritans (open 24hrs a day):	0845 790 9090
London Gay and Lesbian Switchboard (open 24hrs a day):	0300 330 0630
College Councilling (open 10:00-23:00):	0207 594 9637
College Tutors (open 09:30-16:15):	college-tutors@imperial.ac.uk

SUPPORT YOUR LEARNING

College Disability Advisory Service (reception open 9:00-16:30 Mon-Fri):	0207 594 9755
English Language Support:	0207 594 8748

ADVICE & WELFARE

Advice Centre (for advice on any issue):	0207 594 8067
ICU Deputy President (Welfare):	dpwelfare@imperial.ac.uk

CGCU CONTACTS

CGCU Office	CAGB 350
General CGCU Contact Email	guilds@imperial.ac.uk



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Best of luck with your time
at Imperial!



The Spanner
2018-19 Fresher's Guide