Imperial College London

ThinkSpace

CO-LOCATION: ENABLE TRANSLATE GROW

Translation & Innovation Hub (I-HUB) Imperial White City Campus 80 Wood Lane, W12 oBZ

Thursday 13 September 2018

Imperial College London

Imperial College London White City Incubator

Imperial College London Consultants

Imperial College London Corporate













Partnerships





Imperial College London

ThinkSpace

AGENDA

Thursday 13 September 2018

CO-LOCATION: ENABLE, TRANSLATE, GROW

09:00 - 09:30 Registration and refreshments

SESSION 1

ENABLE

Discover Imperial's world-class research and commercialisation activities in Chemistry, Biomedical engineering. We give you insights into the incubator and the unique spaces for local White City community, The Invention Room.

09:30 - 09:45	Welcome and Introduction of Innovation ecosystem in White City John Anderson, Director of Finance Strategy, Imperial College London
09:45 - 10:15	New ways of working with industry: from molecular research to idea prototyping Prof Oscar Ces, Director of the Institute of Chemical Biology (ICB), Co-director of Imperial College Advanced Hackspace (ICAH), Department of Chemistry, Imperial College London
10:15 - 10:35	Revolutionising surgery for osteoarthritis using 3D printing Prof Justin Cobb, Chair of Orthopaedics, Director of the MSk lab, Imperial College London
10:35 - 10:45	Setting the foundation of entrepreneurship at White City Incubator Graham Hewson, Head of Incubation, Imperial Innovations

10:45 - 11:00

Coffee break

SESSION 2

TRANSLATE

University-industry collaborations are extremely important mechanisms for technology transfer. Meet Some of the companies based in the White City Campus to get insights on University-Industry perspectives.

11:00 - 11:45

Airbus Defence and Space division – Imperial partnership

Martin Agnew, Senior Manager – R&T (DISCON), AD&S Central Engineering, Airbus

Drug development and commercialisation programs

Dr Will Maier, Chief Scientific Officer, ICON plc

BioSolar leaf – World's most advanced organic food cultivation system Julian P Melchiorri, CEO, Aborea

SESSION 3

GROW

Imperial provide a full suite of services and programmes to support ideation, incubation, business growth acceleration and collaboration with industry partners. Award winning entrepreneurs will share their aspiration with you.

11:45 - 12:30

A finger prick test – Revolutionary prenatal care solution

Ana Luisa Neves, Co-founder of Momoby, 2018 Venture Catalyst Challenge winner

Creating a new source of water

Jonathan Risley, CEO, Thin Air, 2018 Scalable Business Awards winner and finalist in the Global XPRIZE Water Abundance competition

Novel ocean plastic pollution cleanup technology

Inty Grønneberg, COO, Remora Marine, 2018 Scalable Business Awards winner

12:30 - 13:30

Lunch

13:30 - 14:00

Pitch from exhibitors

- Imperial Consultant (ICON)
- Imperial Business Partners (IBP)
- Corporate Partnerships
- Central Working
- Scale Space
- Upstream (Partnership for growth and Innovation)

14:00 - 15:30

Exhibition and networking

15:30

Event ends

SPEAKERS

SESSION 1

ENABLE | 9.30 - 10:45

Create value from deep scientific research working across industries



John Anderson
Director of Finance Strategy
Imperial College London

John has played a key role in the evolution of the College's Financial Strategy since 2000 including the establishment of the College's Endowment Fund which now stands at just under half a billion pounds; the development of the Non-Core property portfolio (£8m in 2005 to £135m in 2015). The main objective is to maintain a viable financial strategy for the College to achieve its long term growth ambitions.

John initiated the Imperial White City Campus, enabling the College's acquisition of the various land assets and establishing consents for 3 million sqft of mixed use development to date. This includes the development of the GradPad Postgraduate student accommodation portfolio and ThinkSpace's emerging co-location operation in White City.



Professor Oscar Ces
Director of the Institute
of Chemical Biology (ICB),
Department of Chemistry,
Co-director of Imperial College
Advanced HackSpace
Imperial College London

Professor Oscar Ces is Director of the Institute of Chemical Biology (ICB), the ICB Centre for Doctoral Training, the Leverhulme Doctoral Training Centre for Cellular Bionics and Director of Development (Chemistry), Co-Director of Fabricell (pan-London Institute focussing on development of novel technologies for artificial cell construction), Co-Director of the Membrane Biophysics Platform (MBP) and co-director of the Imperial College Advanced Hackspace, a member of the steering committees for Agri-net, the Nutrition Food Network and the AgriFutures Lab at Imperial College London.

He is a leading specialist in biomembrane engineering, drug-membrane interactions, biomimicry, soft condensed matter, chemical biology, microfluidics, artificial cells, single cell analysis and lipid membrane mechanics, co-authoring > 100 papers in these fields. Since 2006 he has raised over £35m in research funding with over £10m in current funding. Much of this portfolio underpins active collaborations with industry such as AstraZeneca plc, GSK plc, P&G plc and Syngenta plc.



Professor Justin Cobb Chair, Section of Orthopaedics Imperial College London

Professor Cobb is Chair of Orthopaedics and Director of the MSk lab on the Charing Cross Campus. The MSk lab consists over 30 surgeons, physiotherapists, scientists and engineers working to improve the clinical outcomes of surgery for osteoarthritis, while reducing the costs of treatment.

Additive manufacturing in the lab enables novel surgical techniques to be developed including H1, the world's first anatomic, ceramic on ceramic resurfacing. This product and its single use, 3d printed instrumentation have been developed in the MSk Lab by Embody Orthopaedic, a spinout from Innovations. 59 patients have already had successful surgery in London, with other centres starting in Europe and Australia in coming months.

Research spend of over £1.5m a year comes from research councils, industry and philanthropy, including a £40m donation by the Michael Uren Foundation underpinning the BME Hub.



Graham Hewson Head of incubation Imperial Innovations

Graham joined Innovations as the Incubator Manager in 2010. The Imperial Incubator is a hub for innovation and entrepreneurship, providing office and laboratory space for early-stage companies including many spinouts from Imperial College London.

Graham has worked in Incubation for over nine years, and has previously managed a successful digital media incubator in London's tech city.

ENABLE – LANDSCAPE FOR TECHNOLOGY TRANSLATION

Making scientific and technological developments accessible to a wide range of users

- Technology Transfer: managing intellectual property assets
- Technology Venturing: creating sustainable high value business
- Co-location: enabling the immediacy of access and environment for interaction
- Corporate Partnerships: collaborating on areas of mutual scientific interest
- Consulting and Evaluation: enabling access to knowledge and specialist infrastructure
- Incubation: accelerating the creation and growth of start-up companies
- Entrepreneurship: developing the skills to create successful business

SPEAKERS

SESSION 2

TRANSLATE | 11:00 - 11:45

Convert research and innovative ideas to commercial activities



Martin Agnew Senior Manager – R&T (DISCON), AD&S Central Engineering, Airbus

Martin obtained BSc in Physics from Imperial College in 1984 specializing in semiconductor device physics and electronics. Martin has over 30 years of experience in research, and its commercialisation into products, systems and services for commercial, governmental & military customers. His current responsibilities include leading the Disruptive Concepts activities in Airbus Defence & Space, setting up the Airbus office in the Imperial College Innovations Hub White City, and championing 'Open Innovations 2.0'. His expertise is mainly in telecommunications (RF & Optical), and, despite his senior management responsibilities, still designs & leads technology teams ideally spending one day per week in the lab!

In the last 10 years he has been Chief Engineer on the European Data Relay Service (lasers between satellites) and hybrid satcom-terrestrial networks for UK Cabinet Office, UK MoD & NATO; worked on Zephyr, F-35 & Eurofighter Typhoon aircraft; and provided technical consultancy to a leading F1 race team. Prior to joining AD&S, he worked at BAE Systems Advanced Technology Centre, Nortel Networks, Bell Northern Research - wireless technology laboratories, and Standard telecommunications laboratories.



Dr William C. Maier Chief Scientific Officer, ICON plc

William is Chief Scientific Officer & Head, Rare Disease Research, International Commercialisation and Outcomes at ICON Plc. the premier patient-centered research organisation dedicated to health research and treatment commercialisation.

Dr Maier has over 25 years of experience in drug development and commercialisation at pharmaceutical companies in Europe, Canada, the United States and Asia. In his current role he works with pharmaceutical companies throughout the world to provide regulatory, strategic and scientific guidance on medical treatment development and commercialisation.

He is a member of the EMEA's European Network of Centres for Pharmacoepidemiology and Pharmacovigilance (www.encepp.eu). In addition, he is a frequent speaker at medical conferences, has had six academic appointments in the UK (Dundee) and the USA (North Carolina) and is a member of the Royal Society of Medicine in the UK.

www.iconplc.com



Julian P Melchiorri CEO, Aborea

Julian is the founder and CEO of Arborea. Aborea's team developed the world's first 'BioSolar Leaf' cultivation system to produce functional food ingredients while cleaning up the atmosphere from CO2 and pollutants, producing breathable oxygen and decreasing building's energy consumptions. Arborea receives constant support from his partners and supporters: Innovate UK, Imperial College London, SynbiCITE, EIT Climate KIC Accelerator, the European Investment Bank Institute, Plug & Play Accelerator.

Julian is an engineer and innovator recognized by Forbes as a leading EU social entrepreneur under 30 years of age (Forbes, 2017). He has received several personal awards: Emerging Talent Medal from London Design Festival, Material Innovation Award from the Clothworkers' Foundation, 1st V&A Engineer in Residence, Best Innovation Award from Innovation RCA.

To share his passion for biotechnology, biomimicry and his vision for a prosperous sustainable future, Julian is an active public engager through talks, workshops and exhibitions: TEDx speaker, World Economic Forum '16, UN Goal 9 @ London City Council '17, Venice Biennale '15, V&A Museum, Natural and History Museum, Centre Pompidou, Wired TV, The Times, Financial Times.

SESSION 3

GROW | 11.45 - 12.30

Support ideation, incubation, business growth acceleration and collaboration with industry partners



Ana Luisa Neves Momoby, 2018 VCC winner

Ana is co-founder of Momoby, she obtained her PhD in 2018. She has worked in developing countries in projects to empower pregnant women, having connections with NGOs in Senegal and Mozambique. Ana is a researcher at the Institute of Global Health and Innovation at Imperial College London.

¥ @momobyhealth



Jonathan Risley
Thin Air,
2018 Scalable Business
Awards winner and finalist
in the Global XPRIZE Water
Abundance competition

Jonathan is the CEO & Co-founder of ThinAir, a company providing an answer to the world's water crisis. ThinAir have developed a material surface that can create clean drinking water from the air and are finalists in the Global Water Abundance XPRIZE competition.

www.thinairwater.com



Inty Grønneberg Remora Marine, 2018 Scalable Business Awards winner

Inty is a co-founder of Remora Marine and a PhD researcher at Imperial College London. Prior to joining Imperial, he was a certified instructor of process improvement techniques at Toyota Motor Corporation and General Motors. He has also been involved as a co-founder in other initiatives such as EvoT, Fusehunt, PHD Network and SOSEcuador. Remora Marine develops ocean-cleaning tech which attaches to ship hulls, autonomously removing pollution cause by the 8 million tons of plastic waste which enter oceans every year.

mww.remora-marine.co.uk

EXHIBITORS

Imperial College London offers various routes to help turn research and commercialisation activities into benefits for society by providing technical advice, technology licensing, business partners membership programme, research partnership, exclusive industry network and a state-of-art office and laboratory spaces for business.







Imperial Consultants (ICON)

With access to more than 4,000 expert academics and the state-of-the-art facilities at Imperial College London, Imperial Consultants have been delivering innovative, tailor-made solutions to organisations, large and small, for over 25 years.

Founded by Imperial to provide a professional consultancy service to industry, government and the third sector – over the last ten years, the team have successfully supported more than 3,400 projects, for around 2,000 clients, from 67 countries.

Contact Imperial Consultants for a solution that meets your business needs – delivered by world-class researchers.

+44 (0)20 7594 6565consultants@imperial.ac.uk

Imperial Business Partners (IBP)

The IBP programme enables a unique approach to problem solving for research-driven industries by providing accelerated access to Imperial expertise, talent and facilities.

Becoming a member connects you a world-class thought leadership in science and technology. Members benefit from a range of specialist services and enjoy a programme that combines academic excellent with entrepreneurial innovation to generate powerful debates and inspirational discussions.

ibp@imperial.ac.uk

Corporate Partnerships

Imperial values collaborative research that brings together complex real-world challenges and academics' curiosity and research vigour. The Corporate Partnerships team helps industry and academics to develop bespoke collaborations, fostering connections between your interests and our research expertise.

www.imperial.ac.uk/
 corporate-partnerships/







Central Working

Imperial College ThinkSpace and award-winning workspace provider Central working opened the doors of the first co-working space at the I-HUB in White City that will leverage the West London's tech and enterprise community. Members have the option of hot desking, securing a permanent office or using a collaborative workspace. Members will have access to Central Working's wider network of nine UK sites, as well as Imperial's extensive network of researchers, academies, other corporate partners and specific guidance to help your business grow.

centralworking.com hi@centralworking.com

Scale Space

Imperial College ThinkSpace have partnered with digital venture builder Blenheim Chalcot to build 'Scale Space', a 243,000 sq ft development within the south side of White City Campus.

The new technology and innovation centre will be the place where technology and digital businesses innovate and grow, supporting economic development in the area.

- imperial.ac.uk/thinkspace/ scalespace/
- ★ thinkspace@imperial.ac.uk

Upstream (Partnership for Growth & Innovation)

Upstream (the Partnership for Growth & Innovation) is a partnership between Imperial College London and Hammersmith & Fulham Council. Upstream is here to help make White City a world class innovation district and to make the borough an amazing place to work and play.

Upstream attracts businesses to the area, connects businesses and supports their growth - with a focus on the tech, creative and biotech sectors.

- move-upstream.org.uk
- hello@move-upstream.org.uk

STAY IN TOUCH:

Dr Bohwon Kim Business Development Manager, Imperial College ThinkSpace

\(\sigma\) +44 (0)20 759 49365 ★ thinkspace@imperial.ac.uk

CO-LOCATION: ENABLE, TRANSLATE, GROW

WHITE CITY HIGHLIGHTS

Imperial's White City Campus is a new 23-acre, £3bn innovation district bringing together researchers, business and partners form academia to share ideas and turn cutting-edge research into benefits for society. Several buildings are already open or under construction on the north part of the site.

MULTIDISCIPLINARY RESEARCH

The Molecular Sciences Research Hub (MSRH) is a new home for the Department of Chemistry, bringing together up to 800 scientist, clinicians, engineers and commercial partners to advance research in areas such as clean energy, chemical biology and personal healthcare.

The Micheal Uren Biomedical Engineering Research Hub, due to open in 2019, will combine the latest medical research and engineering to improve the treatment and diagnosis of diverse medical conditions. Made possible thanks to an unprecedented £40m gift from Sir Michael Uren OBE and his foundation. Over 500 engineers, clinicians and scientists will develop new and affordable medical technologies.

INDUSTRY AND ENTERPRISE

The Translation & Innovation Hub (I-HUB), which opened in October 2016, is first purpose build co-location building at the White City Campus that provides 185,000 sqft bespoke offices and laboratory facilities to enable the co-location of start-ups, entrepreneurs, and major corporations alongside Imperial's academic community.

Imperial White City Incubator is a hub for innovation and entrepreneurship, providing office, laboratory space and support for early-stage companies. Located within the I-HUB, the two storey 18,000 sqft Incubator facility contains 10 laboratories, 12 offices, meeting rooms and breakout areas.

Imperial College ThinkSpace is

responsible for developing and implementing a strategy to support the co-location of knowledge-intensive organisations with College research groups. It provides flexible commercial space to a community of entrepreneurs, fast growth organisations, established companies and global corporations. ThinkSpace is developing an environment that fosters a culture of knowledge sharing where businesses can benefit from research developments and insight from leading experts, allowing them to grow faster and work smarter.

IMPERIAL AND THE WHITE CITY COMMUNITY

Imperial is working with the community in White City to make a positive impact in local education, enterprise, employment and healthcare. We are building a programme of events and activities to involve local residents, businesses and organisations in our work and share the wonder of science and research.

The Invention Rooms on Wood Lane, the first facility of its kind in the UK, presents a new approach to community engagement and outreach, combined with cutting-edge research and innovation all under one roof. The Invention Rooms are three distinct zones: Advanced Hackspace (a workshop facility), Reach Out Makerspace (a workshop and design studio) and Interaction Zone (a warm and welcoming space for the local community).

Wood Lane Studios (GradPad), which opened in 2012, provides specialist accommodation for 600+ Imperial postgraduate students. Wood Lane Studios was the first building of the White City development to open its doors.

The Residential Tower, due to open in 2019, also positioned on the northern part of the campus, the residential tower will provide 192 new homes, including 59 earmarked for Imperial key workers at below market rents.

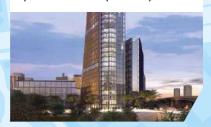


Opened in 2012, home to 600 postgraduate students



Residential building

Will open in 2019, providing 192 homes, including 59 affordable apartments for Imperial key workers



Michael Uren Biomedical **Engineering Research Hub**

Will complete in 2019, it will bring together engineers, scientists and doctors to tackle complex medical challenges



The Invention Rooms

New facilities with workshops, design studios and am interaction zone, opened for the local community



The Molecular Sciences Research Hub

State-of-the-art equipment is now being installed inside, ready for the Department of Chemistry in September 2018



The I-HUB

Opened in 2016, provides lab and office space for research-focused companies



Scale Space

243,000 sq ft new development to house high growth technology companies. Building 1 scheduled for completions Q4 2019





A40

Television Centre

Westfield London Shopping Centre

ABOUT THE I-HUB

At the heart of Imperial's new innovation district

Imperial's Translation & Innovation Hub is a space dedicated to turning world-leading research into new products and services.

Imperial College London and Imperial College ThinkSpace have created a dynamic, enterprising environment with enables the translation of research outcomes into internationally significant technologies. The building provides space for entrepreneurs, start-ups, SMEs and international corporations at every stage of their growth. Across 187,000 sqft, it incorporates a range of fully fitted laboratory, offices, incubator, co-working space, providing scalable, high specification accommodation to commercialise research and ideas.

If you are working on solving technical challenges and developing your business, the I-HUB at the White City Campus offers space to:

ENABLE

We offer affordable adoptable office and laboratory spaces, providing open-plan, turn-key or bespoke flexible working spaces for companies at every stage of their growth.

TRANSLATE

At the I-HUB, thousands of next generation thinkers and entrepreneurs will translate and commercialise cuttingedge research for the benefit of our economy and society.

GROW

The White City Campus will be a place where academics, government, clinicians, established businesses and start-ups co-locate and collaborate, sharing ideas and expertise. This new innovation district will reinforce London's status as a catalyst for scientific development and economic growth.

About Imperial College ThinkSpace

If your company is growing and looking to expand, Imperial College ThinkSpace can support you through the next stage of your growth. ThinkSpace supports incubator graduates by offering a range of scalable spaces to ensure your company continues to thrive in a collaborative, yet fully independent working environment.

The I-HUB facilities are ideal for companies who've established product and market fit, and are looking for expansion opportunities to meet the bigger need for their products or service.

- ★ thinkspace@imperial.ac.uk
- @ICThinkspace
- # www.imperial.ac.uk/thinkspace





COMPANIES AT THE I-HUB

More than 60 companies are based at the I-HUB.

Aborea

A cleantech start-up (Climate-KIC), provides cutting edge and sustainable green building technologies.

Accelerate Places

Provides office space for startup and scale-up businesses. The members will access to Blenheim Chalcot's business builders, support functions and investor network.

Airbus Defence and Space

Airbus Defence and Space is a division of Airbus responsible for defence and aerospace products and services.

AVADO

A digital learning company in partnership with accrediting bodies (CIPD, AAT, ACCA) to deliver professional qualifications through online platforms.

Benugo

Operates high street cafes, restaurants, dining spaces inside public buildings, in-house corporate cafes.

Central Working

Offers office spaces, hot-desking areas and meeting room. Central Working's network of eleven designed clubs across the UK provide businesses with the environment, community and support.

CustoMem

New targeted filtering technology for micropollutants.

CyBio

Develops liquid handling products to provide laboratory automation solutions and robotic systems for the life science industry.

Defence and Security Accelerator (DASA)

DASA aims to improve the UK's existing defence and security capabilities and find innovative solutions to key challenges, while generating economic value.

DNAe

DNA Electronics is a pioneering molecular diagnostics company developing solutions which enable rapid near-patients, real-time diagnostics.

DnaNudge

Develop technologies that use simple DNA test to 'nudge' grocery shoppers towards making healthier food choices based on the genetics.

ICON plc

The leading Patient-Centered Research company serving academia, life science researchers, and the pharmaceutical industry.

Imperial White City Incubator

A space dedicated to small, earlystage technology businesses, provides office and laboratory facilities, training, support and access to professional networks.

MediSieve

Developing magnetic blood filtration to transform the treatment of blood borne diseases.

MiNA Therapeutics

Pioneering small activating RNA medicines for a new approach to medicine.

OGCI

Oil and Gas Climate Initiative is a voluntary. CEO-led initiative which aims to lead the industry response to climate change.

Precision Robotics

Develops medical robots to conduct colorectal oncology surgeries. Spin-out company from Imperial Innovations and the Hamlyn Centre.

Remora Marine

Ocean-cleaning tech which attaches to ship hulls, autonomously removing pollution caused by the 8 million tones of plastic waste which enter oceans every year.

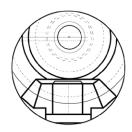
ThinAir

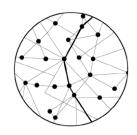
Bringing water to water scare communities across the globe.

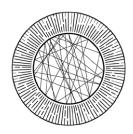
IMPERIAL BUSINESS PARTNERS

The IBP programme enables a unique approach to problem solving for research-driven industries by providing accelerated access to Imperial expertise, talent and facilities.









Becoming a member connects you to world-class thought leadership in science and technology. It gives you the opportunity to work with our exceptional staff and students to solve research-based problems and prepare for emerging technologies as part of your innovation strategy. Members benefit from a range of specialist services (e.g. traditional consultancy work, an exec education session, a leadership speaking series, a data visualisation session or a Tech Foresight activity) and enjoy a programme that combines academic excellence with entrepreneurial innovation to generate powerful debates and inspirational discussions.

Contact: Julia Zanghieri IBP Programme Manager

+44 (0)20 7594 2910ibp@imperial.ac.uk

MEMBER ORGANISATIONS:

Astra Zeneca

AWE

Barbican Insurance Group

Barclays UK

Blenheim Chalcot

ВР

Brevan Howard

ВТ

Centrica

Dyson

Edwardian Hotel Group

Huawei

INEOS KPMG Mastercard National Grid NEC Corporation Procter&Gamble Rolls Royce Shell Shionogi

TATA

Vodafone

KNOWLEDGE EXCHANGE AND TECHNOLOGY TRANSFER AT IMPERIAL

We offer different routes to help turn research into benefits for society.

TECHNICAL ADVICE:

Work with Imperial Consultants to find solutions to your business needs, including advisory services, expert witness, technical insights, specialist training and testing.

RESEARCH PARTNERSHIPS:

Contact the Corporate Partnerships team to connect your interests with the College's expertise and develop bespoke research collaborations.

INVESTMENT PROSPECTS:

Meet our entrepreneurial students and discover early-stage investment opportunities within the Enterprise Lab portfolio of emerging science startups.

TECHNOLOGY LICENSING:

Browse Imperial Innovations' portfolio of available technologies to take a licence based on work by Imperial's world-leading researchers.

JOIN OUR EXPANDING ENTREPRENEURIAL ECOSYSTEM OF STAFF, STUDENTS, BUSINESSES, INVESTORS AND POLICY MAKERS.

A NEW HOME FOR BUSINESS:

Explore our state-of-the art office and laboratory spaces created for corporations, SMEs, startups and entrepreneurs on our White City Campus.

EXECUTIVE INDUSTRY NETWORK:

Join the Imperial Business Partners membership programme for executive events and accelerated access to experts, services and facilities.

Imperial College London

ThinkSpace







Translation & Innovation Hub (I-Hub)

For start-ups, spin outs, major corporations, high-tech and high-growth companies

- // Fully fitted and flexible office and lab space from 250 ft2 to 18,000 ft2
- // Imperial White City Incubator to support young companies
- // Co-working space in partnership with Central Working
- // o.5 mile from Imperial Hammersmith Hospital

To find out more contact Imperial College ThinkSpace: +44 (0)20 7594 5155 | thinkspace@imperial.ac.uk







Sign up to our newsletter

For news, updates and events from the ThinkSpace team Follow the link below or use the QR code to sign up www.imperial.ac.uk/thinkspace/news

