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Cambridge Innovation Summit – Agenda and Logistics Arrangements (v-1.5)

July 9 2019

Sponsored by:

Live delegate comms: We will open a slack channel for registered delegates two weeks before the event. This will enable them to get to know each other and organize side conversations/meetings during the summit. On the day it will be used for live questions and comments which the session chairmen will adjudicate. The Slack feed will be available to delegates via the summit dropbox after the event. Make sure you have the app on your phone when you arrive! The CfBI team can help you.

Delegates will receive invitations to join the Innovationsummit channel on Slack. Outsiders will not be able to view this channel. We recommend that you experiment with Slack before arrival and have it available on your phone when you are in the room. If you have difficulties contact operations@cfbi.com or the summit reception desk.

Pre-event 'Cambridge Pitches' shared with the Corporate Venturing Leadership Forum

Venue St. Johns Innovation Centre Evening July 8th

Start-up Speed Dating, Networking, Wine and Canapes:
St John's Innovation Centre
8th July 15:30 - 19:00

Always a popular part of the Corporate Venturing Leadership Forum events, St John's Innovation Centre and the Summer Summit offers the opportunity to open this up to all attendees. CVLF events have led to over $1.5m in investment as well as the opportunities for start-ups to have case studies to develop their work in the field.

St John's Innovation Centre was established by St John's College, part of the University of Cambridge in 1987 as part of St John's Innovation Park, which now hosts a number of other buildings occupied by knowledge companies and professional services firms. The site (wholly-owned by St John's College, Cambridge, since 1534) provides a campus setting close to both the city centre and major transport arteries. It was the first innovation centre in Europe to focus on supporting knowledge-based businesses. It is the oldest such business incubator in the United Kingdom.

Over the years, numerous prominent start-ups associated with the Cambridge Phenomenon have started their careers at the St John's Innovation Centre, including Autonomy Corporation plc, Jagex Ltd, Zeus Technology Ltd, Owlstone Ltd, Breathing Buildings Ltd, Scientia Ltd and Datanomic Ltd, among many others.

St John's Innovation Centre are bringing together a start-ups from their wider European ecosystem to talk about what they do and allow you to get to know them. From novel nano-particle coatings to blockchain backed education certificates via unique pasteurisation tech - Challenge us to find a new tech you want to meet?

Places are limited

During the Summit we will be organizing a number of **'Huddles'** (short small meetings at defined locations) so that small groups of delegates can meet and exchange views about specific areas where new consortia might be built. The list includes 'Cybersecurity' and 'Rapid Decarbonization' but will grow during the summit. Use the Slack channel to find out what is on offer and get involved.

Summit Venue Granta Suites Day of July 9th; Queens College Evening of July 9th

Responding to CfBI consortium members' wishes over previous years, this is a professionally facilitated, structured and highly interactive summit – with invitation only corporate delegates seated in cabaret format posing and responding to 'big questions'. International expert witnesses in each session provide insight and respond to questions.

CfBI uses this format to seed new consortia to add to its extensive portfolio. As candidates emerge there will be impromptu 'huddles' to discuss.

9:00 Registration and Networking

9:30 Welcome / About CfBI / About Today: Peter Hewkin CfBI

Peter Hewkin is the Founder and CEO of the Centre for Business Innovation (CfBI) a Cambridge Think Tank which runs international blue chip consortia helping member organizations do more with less by sharing learning, product work, ideas and influence all in the spirit of Open Innovation. He previously ran the UK Government's Centre for Innovation ThinkTank, was a director of Scientific Generics (now Sagentia plc) and a product / development manager for ABB in Germany. He holds a doctorate in Engineering Science from the University of Oxford and an MBA with distinction from INSEAD.

10:00 Working Session 1 - **Innovation Landscape**: Chaired by Philip Guildford

Philip is the Director of Strategy and Operations in the Department of Engineering. He guides and supports the development and expression of research strategies (e.g. the Department's Move West), coaches and supports academics in pursuit of major funding opportunities (corporate, government and philanthropic), and leads his colleagues to deliver a professional service for supporting the Department's academic community ranging across finance, corporate relations, knowledge transfer, entrepreneurship, postdoc and visitor HR, technical services (design and workshops), communications, buildings and estates, and REF.

Expert Witnesses:

- Paul Misener – Amazon

Mr. Paul E. Misener serves as Vice President of Global Public Policy and Vice President of Global Innovation Policy & Communication at Amazon.com Inc. Mr. Misener joined Amazon.com from the Washington, D.C., law firm of Wiley, Rein & Fielding, where he was a Partner and Chairman of the e-commerce and Internet practice group. He was formerly manager of telecommunications and computer technology policy at Intel Corp, where he also cofounded and led the Internet Access Coalition. He served as a Director of Shop.org. Mr. Misener is a 1985 graduate of Princeton University with a B.S.E.in Electrical Engineering and Computer Science and has a J.D. from the George Mason University School of Law.

- Lucy Mason - Defence and Security Accelerator (DASA)

Dr Mason is Head of the Defence and Security Accelerator, Lucy is responsible for building strong relationships between defence and security departments within the UK Government, industry, academia and other partners, to deliver innovative ideas for the security and prosperity of the UK. The Accelerator fast-tracks innovative, game-changing ideas by funding their development, matching suppliers with expert Innovation Partners, and boosting supplier access to defence and security. Lucy joined DASA from the Home Office where she led the science and technology, and private sector engagement, work-strands for the review of the Government's counter-terrorism strategy. Lucy has expertise in security and policing and her main interests are in technology and innovation, digital ethics and identity, social and behavioural science, and horizon scanning. Lucy was Home Office lead on the Internet of Things (IoT) and a Board member for the PETRAS IoT Research Hub, and was formerly Deputy Head of Foresight in the Government Office for Science

- Peter Virk – Jaguar Land Rover

Peter Virk has deep roots at Jaguar Land Rover. Initially joining Rover group over 20 years ago, he's stood by both marques through some tough times and remains loyal to this day. In this new era of progress, Pete delivered a number of 'technology-firsts' before creating and now heading up the Connected Technologies and Apps team – developing apps and building platforms that take core components from both Automotive and Consumer Electronics. Utilising relationships with start-up companies and Tier 1 suppliers, he is leading the company down exciting new paths, forever innovating and driving Jaguar Land Rover's future connected strategy.

12:00 How a Bank innovates - **Alex McCracken - Silicon Valley Bank**

1. **Internal Innovation** (Fintech Accelerator + Partnerships)

2. **External Innovation** ($4.5bn investments in VC Funds, Companies + Corporates)

12:10 Introduction to Table-Top Demos **Alex McCracken - Silicon Valley Bank**

Alex is Managing Director of Corporate Ventures at SVB in Europe and provides growth financing to technology companies

Alex was previously Investment Manager at TTP Ventures, where he invested in Cambridge companies including Teraview, CamSemi and Wayve. In 2001, Alex co-founded TISS Ltd. to develop security systems for commercial vehicles. As Managing Director, Alex raised venture capital funding and helped TISS to grow and achieve sales to global logistics companies. He successfully exited the business in 2007 after selling part of his stake to a Family Office

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For over fifty years the Cambridge cluster/ecosystem has been a vibrant incubator of innovative businesses .. we have selected a few of these as examples of the upcoming generation. Come and meet them and find out how you can engage!

12:30 Lunch / Networking / Table-Top Demos

Table Top Demos – to include

- **The Wand Company**

The Wand Company was founded in 2009 to create the world's first real magic wand after Chris Barnardo and Richard Blakesley had the idea of putting advanced electronics inside a traditional-looking wizard's wand. Since then we have stayed true to our goal of breathing life into our favourite fantasy and science fiction props using clever design, advanced electronics, authentic materials and world class manufacturing.

We concentrate on developing each product properly and pay a great deal of attention to detail so that our products are rewarding to own and deliver excitement on many levels. Beautiful high-quality finishes, richly illustrated manuals, display stands and accessories make sure that whether you are buying one of our products for yourself or as something special for someone special, you will not be disappointed.

Our dedication to our products doesn't stop when your ownership starts. We are proud to provide our world-class customer service to everyone who owns one of our products, which ensures that you will continue to get the most out of your Wand Company product for years to come.

- **Polychord**

PolyChord Limited is a spinout from Cambridge University formed in 2017 to commercialise a unique and cutting-edge analytical data tool developed by two cosmology professors (Professor Mike Hobson & Professor Anthony Lasenby) both now directors of the company. The data they had to deal with came from the Planck satellite and went from the present day to the Big Bang, spanning ten billion years. The tool, PolyChord successfully extracted the desired information from that data - and we now look to apply it to commercial instances where there are similar Big Data problems with issues of high dimensionality, many variables, complexity and dirtiness. Many people these days claim to have smart data tools - PolyChord is a genuine step change ahead of the rest and can fit models to data when the task is exceptionally challenging, in order to extract accurate information and make predictions. We have made progress by collaborating with large dynamic successful companies, who have gathered data and make it ready to perform analysis upon then have run into difficulties with many variables, and high dimensions - which makes fitting models to extract information impossible - that's where our PolyChord tool really delivers. Global optimisation is also achievable in many circumstances. PolyChord has this year been used to optimise neural networks, where we treat the honeycomb-like surface of the neural network as a high dimensional data problem in its own right and solve it using PolyChord. The result is PolyNet, a second tool for the company, and a new way of using neural networks for more accurate Machine Learning.

- **SeeQuestor**

More than 1.5 trillion hours of video was captured globally by more than 200 million surveillance cameras last year. But only a small fraction of this is obtained and reviewed by law enforcement or security personnel, because it takes significant resource to gather and view. As a result, video - often called ‘the third forensic’ after finger prints & DNA, plays a greatly undervalued role in investigations to the detriment of solving crimes, saving lives & promoting safer environments.

SeeQuestor’s Video Analytics Products, designed primarily for law enforcement and security teams, let you search through video more than 100 times faster than conventional methods. SeeQuestor can save hundreds of man hours a week. The platform provides a full suite of capabilities at the video analyst’s fingertips - including world-leading video analytics, format conversion, maps and viewing modules - that will significantly boost a team's productivity, regardless of the quality of the video footage (which is often very poor).

- **Featurespace**

Teaching machines to act and to think like humans is an exciting recent breakthrough in these academic fields. Featurespace’s Adaptive Behavioural Analytics technology left the Cambridge Engineering Department in 2008, when Betfair asked Featurespace to build the first system to outwit fraud attacks by thinking like each one of their customers.

Featurespace built the world’s first Adaptive Behavioural Analytics engine – the ARIC platform – to solve this commercial challenge. We found the Financial Services industry was plagued

by similar issues. ARIC is proving the commercial value in the world of this anomaly detection technology, helping organisations revolutionise the way they get the best out of their own data.

Delegates have the opportunity for networking conversations to spill over into the private gardens on the banks of the River Camb just next to the famous 'Mathematical Bridge'

13:15 Working Session 2 **Innovation in Digital /Security** Landscape: Chaired by James Boyle

I lead the privacy and data protection group at Taylor Vinters. I have particular expertise with commercial contracts where an IT, e-commerce or data element is involved.

I have led large-scale GDPR compliance projects for businesses based in the UK and overseas, including mobile ad networks, businesses caching the dark net and fraud-prevention SaaS platforms.

I can help you make the most of the personal data you hold in a legally compliant way, work with you to ensure you're ready for the GDPR, and develop an electronic marketing campaign in a way which avoids the key regulatory pitfalls.

I also regularly work with consumer facing e-commerce businesses, helping them operate their website, contract with consumers and operate their customer service centres in a legally compliant way.

Expert Witnesses:

Robert Hercock - BT

Dr Robert Hercock is a Chief Research Scientist in the British Telecommunications Security Research Practice. He has over twenty years' experience in leading security research projects in the UK, and was theme leader for Cyber Security in the UK MOD Information Fusion Defence Technology Centre. His research interests include Cyber Security, A.I, Robotics and Complex Adaptive Systems. He has also served as a member of the Royal Society Science and Industry Committee.

He has chaired an international workshop on adaptive cyber defence, and has over thirty international publications in AI and security concepts, in addition to thirty filed patents. He frequently provides expert advice to government on Cyber Security and AI issues, including contributions to Blackett reports, and Defence Joint Concept notes.

Alex van Someren – Amadeus Capital Partners

Alex is Managing Partner of the Early Stage Funds at Amadeus and sits on the boards of several Amadeus portfolio companies. Alex has a current investment focus on UK deep technology including artificial intelligence & machine learning, cloud computing/enterprise SaaS, cyber security, digital healthcare, medical technology and optical & quantum technologies.

- Alex is a co-founder of CyLon (https://cylonlab.com/), which finds, grows and invests in the world's best emerging cyber businesses. During 2019, Alex will hold the Clore Visiting Innovation Professorship of the Royal College of Art, and will be a member of the Royal Society's Science, Industry and Translation Committee.
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  Alex left school to join Acorn Computers in the 1980s, where he was involved in the development of the BBC Microcomputer & Acorn Electron. He subsequently co-founded ANT Ltd in 1990 to produce networking products, including web browser software licensed to the Oracle Corporation. ANT plc was listed on the London AIM market (AIM:ANTP) in 2005 and later acquired by Espial.
- In 1996 he co-founded nCipher with venture capital backing to develop internet security products using advanced cryptography. The company became a world leader in IT security, counting major banks, finance companies and governments among its customers.
- As nCipher's CEO he raised a total of £14 million in venture capital funding before leading the company to an IPO on the London Stock Exchange in 2000 (LSE:NCH) at a £350 million valuation. nCipher plc was sold to Thales SA in 2008 and is now Thales e-Security.

- Simon Shiu – HP

Simon Shiu is currently head of the Security Lab at HP Inc.

Shiu has been with HP Labs for over 20 years and has led a number of research teams and published several academic and professional articles on a wide range of topics spanning secure hardware, trusted infrastructure, cloud computing, audit, governance, and the economics of information security. The teams have a strong record of innovation both for HP businesses and as part of the main HP Labs initiatives. Shiu has always had a strong external presence working directly with customers (including several pilots), EU collaborations, UK government-funded research, and several of the UK universities that focus on security.

Shiu holds a PhD in computer science from Durham University, serves on several academic advisory committees, and is a member of the institute of information security professionals (M.Inst.ISP).

- Chris Winter – BT Brightstar

Chris has 30 years experience in R&D, venture capital and corporate VC. Chris has been involved with 40+ start-ups and five $80m+ exits. He is formerly Chairman of Health Enterprise East (NHS Innovation Hub); was a founder of Synergix Health (Health company); a Partner with New Venture Partners (International VC). Chris was an Entrepreneur and former Head of Futures Research at BT (R&D) where he founded and became CTO of BT Brightstar (Corporate Venturing at British Telecom). He has provided innovation and IP commercialisation advice to major corporations including companies such as Origin Energy, Finland's VTT, Xerox and Swiss Post.

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15:15 Break / Networking Table-Top Demos

15:45 **Innovation Made in Cambridge**: Chaired by Haroon Ahmed University of Cambridge

Haroon Ahmed first came to the Engineering Department in 1959 having graduated at Imperial College London. He worked for his PhD with Charles Oatley and Bill Beck. He then continued to work with Charles Oatley, until Oatley retired, before moving into the new research area of electron beam lithography in 1970.

He taught electrical engineering at the Department for twenty-two years, until 1984, and saw the electronics courses change from valves to transistors and eventually to modern microelectronics. His two text books, one with Beck and the other with Spreadbury, have been used to teach many generations of students.

His research group eventually became so large that he moved it to the Science Park, although it still remained part of the Department. The Group bought themselves a car to aid commuting between the Science Park and Trumpington Street. This group left the Engineering Department in 1984 when Haroon moved to the Cavendish to set up the Microelectronics Research Centre with the aid of a large donation from Hitachi.

In August 2000 he became the Master of Corpus Christi College, Cambridge

- With cameos / case studies of past / present and future Cambridge Innovation enabled companies

• **ARM** Represented by Jamie Urquhart = Co-founder.

• **Astra Zeneca** /Medimmune / Cambridge Antibody Technologies
Represented by John Elvin = Co-founder

• **Featurespace** Represented by David Excell Founder

16:45 Closing Remarks / What Have We Learned – Next Steps: Peter Hewkin

17:30 **Walking transfer to Queens College**

With a slight detour delegates can walk along the 'backs' seeing Trinity Hall, Kings College and Clare College.

Queens College (Famous for its 'Mathematical Bridge)

18:00 Queens College - **Drinks on the lawn** – overlooking the river Cam

19:00 **Dinner in the Old Hall** – addressed by: Peter Cowley – Chairman of Cambridge Angels

21:00 Close

Peter Cowley – Chair Cambridge Angels

Cambridge Angels is a group of more than 60 high-net worth investors who have proven experience as successful entrepreneurs in technology, internet, software, hardware, tools and technologies supporting healthcare and digital healthcare. Members invest in and mentor high quality start-up and early-stage companies in these sectors in Cambridge, London, Oxford and throughout the UK.

Peter Cowley, a Cambridge university technology graduate, founded and ran over a dozen businesses in technology and property over the last 38 years. He has built up a portfolio of 68 angel investments with six good exits and ten failures. He is the President of the European Business Angel Network (EBAN), chair of the Cambridge Angels and was UK Angel of the Year 2014/15. He has mentored hundreds of entrepreneurs and is on the board of seven startups.

In 2011, he founded and has since run Martlet: a Corporate Angel, investing (currently £7M) from the balance sheet of Marshall, a £2.5bn revenue Cambridge engineering company. He is a fellow in Entrepreneurship at the Cambridge Judge Business School and on the investment committee of the UK Angel Co-fund. He has also had 16 years' experience as chair, treasurer and trustee of the boards of seven charities.

With his son, Alan, Peter is sharing his and others' experience and anecdotes in order to educate angels and entrepreneurs via **The Invested Investor** which publishes both a book and 50+ podcasts. Peter is a public speaker on entrepreneurship and angel investing throughout the world.

July 8 and 10 2019: CfBI consortia for: 'Open Innovation meets Big Data'; 'Nano Carbon Enhanced Materials / Additive Manufacture' 'Corporate Venturing Leadership' , 'Digital Health' 'Distributed Ledger Technologies' and 'Cybersecurity' will be meeting in separate sessions in and around Cambridge.

About our Sponsors

For 35 years, **Silicon Valley Bank** (SVB) has helped innovative businesses, enterprises and their investors move bold ideas forward, fast. SVB provides a range of targeted financial services and expertise through its office in the UK. With commercial and international banking services, SVB helps address the unique needs of innovators. The UK's leading technology and life science businesses, in all stages of development, look to SVB's niche expertise, 30 years of experience and unparalleled network, as they grow at home and tackle new markets abroad. Learn more at svb.com/uk

Taylor Vinters is an international law firm supporting the businesses which drive the innovation economy, and the entrepreneurs and private wealth that underpin them.

Our practice is global, operating from innovation clusters in the UK and Asia. With 28 partners and 80 lawyers across our offices in London, Cambridge and Singapore we help entrepreneurial clients make great things happen, whatever their size and sector. Our clients range from Fortune 500 technology multinationals through fast growth venture backed businesses and owner managed businesses, to individuals driven by great ideas.

We are a full service law firm and our key practice areas are corporate, commercial technology, IP, brands, employment, commercial real estate, disputes and private wealth. But we are also more than just a law firm; we're active investors in legal technology and artificial intelligence. Our portfolio structure allows us to support our clients with integrated legal, consulting and technology solutions – helping them manage risk, take informed decisions and leverage valuable networks. This is our value proposition.

Logistics

Getting to Cambridge

Cambridge is located 50Km north of London **on the M11 motorway**.

It is easily reached by train (2 fast trains per hour from Kings Cross/Eurostar 45min 2 slower trains per hour from Liverpool Street);

By Air there are several options (Stansted [recommended]: 30mins train or road), Gatwick: 110 mins by hourly direct Thameslink train or, Heathrow [not-recommended]: 120 mins train [change at Kings Cross/St Pancras for the Piccadilly Line] or road. London City 60 min by road. Luton 50 min by road.

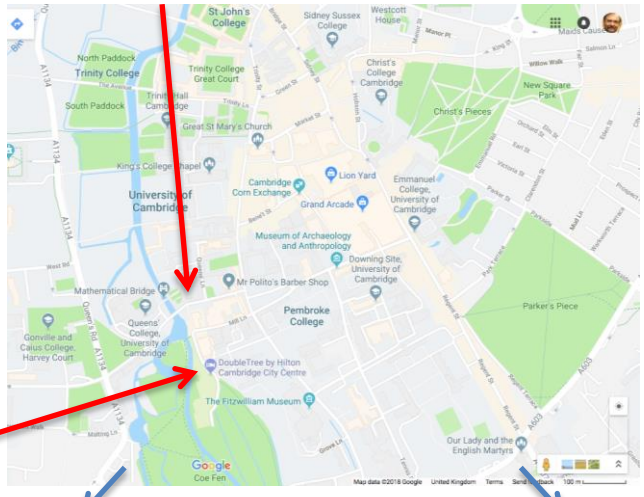
Granta Suites (summit venue) is **15mins from Cambridge station by taxi or25 mins walk**. Morning traffic can be quite chaotic.

Accommodation

It is worth paying a bit extra to stay overnight in Cambridge itself – and avoiding the morning rush hour.

Granta Suites is part of the Doubletree Hotel which offers rooms at the site of the Cambridge Innovation Summit.

Queens College (dinner venue)



To M11 to Cambridge Station

Parking is available at the Granta Suites site (at a charge);

Also consider: **University Arms Hotel** and **Cambridge City Hotel.** Our budget recommendation is Clifton Road or Newmarket Road Travellodge ;

CfBI can organize college rooms for a small number of consortium members who apply in good time.