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THE FUTURE OF QUANTUM BUSINESSES

THE DISCOVERY OF DEEP TECHNOLOGIES

CAMPUS BIOTECH GENEVA
27 / NOVEMBER
2018

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Schedule

8:30 - 9:00	**Registration** Doors open at 8:30
9 :10 – 9 :15	**Welcome** Gemma Milne – Co-founder and Co-host of Science: Disrupt
9 :15 – 9 :25	**Hello Tomorrow** Sarah Pedroza - Co-Managing Director at Hello Tomorrow
9 :25 – 9 :30	**Introduction to the Future of Quantum** Jyoti Guptara - Storyteller, bestselling author
9 :30 – 10 :15	**Introduction to the concepts behind Quantum** James Wootton - Research Staff Member at IBM Research, Wrangler of qubits. Founder and maker of quantum games @decodoku.com
10:15 – 10:45	**Quantum Security [Panel]** **The threat of quantum computing on cybersecurity and Quantum-safe security** Bilel Jamoussi - Chief Study Groups Department, TSB, ITU, International Telecommunication Union Loïc Mocellin - Country Manager – Switzerland, Oodrive Vadim Lyubashevsky - Post-quantum Cryptography Researcher, IBM Zurich Research Laboratory Gemma Milne [Moderator] - Co-founder and Co-Host of Science: Disrupt
10:45 – 11:10	**Investing in Quantum businesses** Christophe Jurczak - Capital investor for the Quantum Future, CEO at Quantonation
11:15 – 12:05	**Q Startup Pitches I** Eugenia Balysheva - CEO at Dotphoton [Quantum inspired software] Mathieu Munsch - CEO at Qnami [Quantum sensing] Pascal Gallo - CEO at LakeDiamond [Quantum materials and hardware] Valérian Giesz - Cofounder and CEO at Quandela [Quantum hardware] Clément Javerzac-Galy - Cofounder at Miraex [Quantum hardware] Olivier Hamel - Vice-President @ La French Tech Suisse [Celebrating innovation and startups]
12:05 – 1:15	**Lunch break - Networking - Meetings**
1:15 – 1:45	**Quantum networks and commercializing quantum technologies** Grégoire Ribordy - CEO & Vice Chairman of the Board at ID Quantique
1:45 – 2:15	**Maps, trends and perspectives of quantum computing** Philipp Gerbert - Senior Partner and Managing Director at The Boston Consulting Group Frank Ruess – Project Leader at The Boston Consulting Group
2:15 – 2:45	**Quantum Computing at NASA's Quantum Artificial Intelligence Laboratory** Davide Venturelli **-** Quantum Computing Lead USRA Research Institute for Advanced Computer Science
2:45 – 3:15	**Quantum computing for Chemistry & Pharmaceuticals and optimization** Ivano Tavernelli - Researcher at IBM Research, Quantum for chemistry and optimization
3:15 – 3:45	**Quantum Computing at CERN** Federico Carminati - Chief Innovation Officer at CERN openlab
3:45 – 4:15	**working - Meetings**
4:15 – 4:45	**Hardware for the Quantum revolution [Panel]** Michael Geiselmann - Co-founder, managing director, Ligentec SA David Gunnarsson - Principal Scientist BlueFors Cryogenics Oy Maud Vinet - Advanced CMOS manager at CEA-Leti. Member of the board of Quantum Engineering Grenoble Gemma Milne [Moderator] - Co-founder and Co-Host of Science: Disrupt

4:45 – 5:30	**Q Startup Pitches II** Henning Dekant - Cofounder at Artiste QB Net Inc. Ludovic Perret - Cofounder at CryptoNext Mozhgan Pourmoradnasseri - Chairperson of the management board @ Ketita Labs Pierre Gauthier - CEO at TrustLeap (TWD Industries AG) Antonio Gambardella - Director at Fongit
5:30 – 6:00	**The Future is Quantum** **Education and collaborations for the future of quantum businesses** Anna Obikane - IBM Research, IBM Q Experience – Education, Yorktown Heights, NY. **Ethics, impact and Quantum SciFi** Jyoti Guptara - Storyteller, bestselling author
6:00 – 7:00	**Closing Apero and Networking drinks**

Start Ups

Artiste QB Net Inc. ***Canada*** Henning Dekant	We created a development platform (Bayesforge.com) that bundles our QC compiler (compatible with Rigetti, IBM and Google Cirq) with other leading Open Source QC tools. It is available on the AWS marketplace and we are currently bringing it to other Cloud providers. It is Docker based which makes it also easy to deploy in-house. We developed a solution that uses (quantum) Qubo solvers such as D-Wave of Fujitsu's digital annealer to tackle the black box problem of machine learning. We also have a patent pending for distributed QC emulation and scientific computing which leverages Blockchain technologies. We developed a solution that uses (quantum) Qubo solvers such as D-Wave of Fujitsu's digital annealer to tackle the black box problem of machine learning. We also have a patent pending for distributed QC emulation and scientific computing which leverages blockchain technologies.
CryptoNext ***France*** Ludovic Perret Jean-Charles Faugère	CryptoNext is a spin-off from Sorbonne University and INRIA. Our mission is to protect the Internet against the quantum computer. We are leading experts in the design, analysis and deployment of quantum-resistant cryptography. We propose a set of software tools that permit a seamless transition to a cryptography resistant against quantum computers.
Dotphoton ***Switzerland*** Eugenia Balysheva	Humans are visual beings, so that in each of our endeavours (science, technology, art, and fun) imaging plays an increasingly important role. As image sensor become quantum limited, image-processing algorithms can be optimised accordingly to gain in quality, reliability and efficiency. Dotphoton brings interoperability in image data, speeds up the development of imagery and enables the most innovative imaging technologies.
Hathor Technologies ***Switzerland*** Alexandra Mandic	We develop tool for data consumers and data owners leverage their data assets in a regulated environment. Our g is goal is to accelerate the development of innovative AI solutions in healthcare while ensuring full compliance of involved stakeholders.
HUMAIN.XYZ ***Switzerland*** Preeti Sinha	Humain.xyz Is a data analytics, artificial intelligence, machine learning company stopped him to connect social entrepreneurs working in the Human living standards – nutrition water shelter health education jobs – with capital and investors investing in the sectors with returns.
iconyl ***Switzerland*** Christian Mustad	360 degrees comprehensive digital transformation readiness diagnostic tool for organisations
IQM ***Finland*** Jan Goetz	Founded in 2018 and based in Espoo, Finland, IQM is building scalable hardware for universal general purpose quantum computer based upon superconducting qubits. They were founded as spin-off of the Quantum Computing and Devices research group of Aalto University. IQM is making use of a patented quantum-circuit refrigerator technology that was originally developed at the Quantum Computing and Device research group.

Ketita Labs ***Estonia*** Mozhgan Pourmoradnasseri	Ketita Labs aims to commercialize near-term quantum computing by developing hybrid quantum-classical machine learning solutions.
LakeDiamond ***Switzerland*** Pascal Gallo	LakeDiamond is a global leader in the production and transformation of ultra-pure lab-grown diamonds for high-tech industrial applications. The company recently launched an ICO to increase its production capacities. This ICO is the first ever powered by an established banking group. Incorporated in 2015 in Switzerland, and building on years of research at EPFL, LakeDiamond brings together globally renowned and respected professionals with a proven track record in physics, industry, blockchain, marketing and finance. The company develops Chemical Micro-Wave Chemical Vapor Deposition (MCVD) reactors capable of growing the highest quality of diamond on earth thanks to a perfectly controlled and precise technology. The qualities attained make the company's ultra-pure lab-grown diamonds suitable for the most demanding applications, allowing LakeDiamond to pursue new exciting high-tech industrial applications beyond the high-end jewellery market, such as micro-mechanical parts, laser power beaming, high power transistors and high-precision magnetometers.
LIGENTEC ***Switzerland*** Michael Geiselmann	LIGENTEC is a B2B start up, manufacturing Photonic Integrated Circuits (PIC) for customers in high-tech areas such as AR, Quantum technologies, LiDAR and Biosensors.
MiraEx ***Switzerland*** Clément Javerzac-Galy Nicolas Piro Mitchell Anderson	Building the quantum hardware for next generation networking, computing and sensing. At Miraex we build quantum integrated circuits to connect quantum computers together. Our industrial solutions prevent asset failure before it happens in the most demanding environments, where standard electronic sensors do not work.
NANOGA ***Switzerland*** Nasser Hefyene	NANOGA develops and commercializes disruptive and innovative solutions based on quantum photonic technologies. We are active in numerous areas, among them; luxury watch industry & display glass industry.
q-edu-lab.com ***Switzerland*** Tamás Varga	Offering courses in quantum computing and quantum cryptography.
Qnami ***Switzerland*** Mathieu Munsch	Qnami is a spin-off from University of Basel, Switzerland. We develop and commercialize innovative solutions for sensing and imaging applications using synthetic diamond and quantum technologies.
Quandela ***Switzerland*** Valérian Giesz	Photonics is among the few platforms that can reach very high levels of complexity in quantum communication, computation and sensing. This is made possible by the mobility of photons and the large variety of their controllable degrees of freedom. Scaling up optical quantum technologies requires efficient single-photon sources delivering no more than one photon per pulse with the highest repetition rate. For many applications the generated photons should be indistinguishable with a high level of fidelity.
Quantima Tech ***Switzerland*** Carole Hofmann	Quantum interface to the mind (neuralink on a software basis).
QUANTUMWARE ***France*** David Herrera Marti	Software for near and medium term quantum processors.
SGDL Innovation SA ***Switzerland*** Alan Tawil-Kummerman	Indexation, Encryption and Space filling curve, all for innovative algorithms.
Smarterchains ***Switzerland*** Luigi Matrone	Smarterchains is a platform to enable the industry 4.0 ecosystem to achieve the factory of the future vision.
TWD Industries AG ***Switzerland*** Pierre Gauthier	UK Gov. validated future-proof IoT "unconditional" security ("unbreakable" in academic jargon); IoT, Payments.

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Investors

Atomico ***UK*** Annalise Dragic	Atomico invests in disruptive technology companies with ambitious founders from Series A onwards. Our experienced team includes entrepreneurs and executives from the world's most successful technology firms who partner with our companies as they scale to become global winners.
bpifrance ***France*** Jean-Christophe Gougeon	Bpifrance accompanies companies to see bigger and further. From start-up to stock market listing, credit to equity, Bpifrance offers financing solutions adapted to each stage of your company's life.
BusinessIn.ch ***Switzerland*** Suzanne Hraba-Renevey	To spark synergies and create impact we connect SMEs with startups and other major actors of innovation in a series of events on selected topics particularly affected by digitalization. We take a resolute international perspective and a transversal approach, creating communities of interest and boosting open innovation through collaborative intelligence.
GRAVITATION ***France*** Charles Beigbeder	Founder of investment fund dedicated to quantum technologies.
IDS Capital ***Switzerland*** Anthony Martin	At IDS Capital, we provide investment solutions that are tailored to address today's challenges to grow capital, safeguard the purchasing power, and ultimately preserve the lifestyles of investors.
Innovaud ***Switzerland*** Patrick Barbey Didier Schwarz	Innovaud is the first port of call for innovation in Vaud, providing free support to innovative start-ups, scale-ups and small and medium-sized businesses in the canton. Innovaud focuses on innovations in cutting-edge technology or new approaches.
Quantonation ***France/USA*** Christophe Jurczak	Quantonation is an Early Stage Venture Fund dedicated to Deep Physics startups with a focus on the emerging and disruptive field of Quantum Technologies. Created in 2018 and based in Paris (France) and Palo Alto (USA), our approach is to work closely with the startups we invest in, whatever the stage of development they are in, leveraging our expertise and network to their benefit. Quantonation is seeded by Audacia, leading French Growth Equity investor, and Gravitation.

Attendees

Last Name	First Name	Category	Affiliation
Anderson	Mitchell	Organizer, Startup	Hello Tomorrow, MiraEx
Anderson	Samantha	Student, PhD, Postdoc	EPFL
Auber	Anne-Sylvie	Student, PhD, Postdoc	Aubert Consulting
Bailly	Jérôme	StartUp	LakeDiamond
Balysheva	Eugenia	Startup	DotPhoton
Barbey	Patrick	Incubator, Accelerator	Innovaud
Barzilay	Nathalie	StartUp	LakeDiamond
Begle	Arnaud	Student, PhD, Postdoc	SymbioSwiss
Beigbeder	Charles	Corporate, Investor	Gravitation
Bobier	Jean-Francois	Corporate, Investor	The Boston Consulting Group
Brasch	Victor	Public Institutions	CSEM
Braud	Romain	StartUp	LakeDiamond
Carminati	Frederico	Public Institutions	CERN openlab
Comandar	Lucien	Corporate, Investor	Huawei Technologies
Cunningham	Peter	University, Public Institutions	Geneva Centre for Security Policy
Darwich	Oday	Student, PhD, Postdoc	CERN
Deckart	Manuel	StartUp	MiraEx
Dekant	Henning	StartUp	Artiste QB Net Inc.
Delgoffe	Antoine	Student, PhD, Postdoc	EPFL
Desjardins	Matthieu	Student, PhD Scholar	Ecole Normale Supérieure
Dragic	Annalise	Corporate, Investor	Atomico

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Dupertuis	Marc-André	University	EPFL
Faugère	Jean-Charles	StartUp	CryptoNext and INRIA
Felle	Martin	Corporate, Investor	Deloitte AG
Feofanov	Alexey	StartUp	LakeDiamond
Feve	Frederic	Corporate, Investor	FODIP
Follonier	Indiana	Corporate, Investor	Peacock Solutions Sàrl
Forró	László	University	EPFL
Gadiri	Mehdi	Student, PhD, Postdoc	EPFL - UNIGE
Gallo	Pascal	StartUp	LakeDiamond
Garcia Picazo	Alberto	StartUp	Hello Tomorrow
Gauthier	Pierre	StartUp	TWD Industries AG
Geiselmann	Michael	StartUp	Ligentec SA
Gerbert	Philipp	Corporate, Investor	The Boston Consulting Group
Giesz	Valérian	StartUp	Quandela
Gigon	Iris	Corporate, Investor	Peacock Solutions Sàrl
Goetz	Jan	StartUp	IQM
Goubet	Fabien	Press	Le Temps
Gougeon	Jean-Christophe	Incubator, Accelerator	Bpifrance
Goy	Jean-Jacques	Corporate, Investor	GMP SA
Grieco	Raphael	Corporate, Investor	La French Tech
Gunnarsson	David	Corporate, Investor	BlueFors Cryogenics Oy
Guptara	Jyoti	Public Institutions	Writer/Speaker/Consultant
Hamel	Olivier	Incubator, Accelerator	La French Tech Suisse
Harp	Angela	Corporate, Investor	IBM Research
Hay	Pamela	Corporate, Investor	Embassy of Canada
Hefyene	Nasser	StartUp	NANOGA
Herrera Marti	David	StartUp	QUANTUMWARE
Hofmann	Carole	StartUp	Quantima Tech
Hraba-Renevey	Suzanne	Corporate, Investor	BusinessIn
Jahani	Yasaman	Student, PhD, Postdoc	EPFL
Jamoussi	Bilel	Corporate, Investor	ITU
Javerzac-Galy	Clément	PhD, Startup	EPFL, MiraEx
Jollivet	Ombeline	Public Institutions	Ambassade de France en Suisse et au Liechtenstein
Juillerat	Cedric	Corporate, Investor	Codalis
Jurczak	Christophe	Corporate, Investor	Quantonation
Katukuri	Vamshi Mohan	Student, PhD, Postdoc	EPFL
Kern	Lakshmi	Corporate, Investor	Embassy of Canada
Kriebel	Jennah	Student, PhD Scholar, PostDoc	Scaliest
Kunej	Vojko	Corporate, Investor	Bluefors Oy
Labarte	Edouard	Corporate, Investor	Peacock Solutions Sàrl
Lafere	Jerome	StartUp	Domevo SAS
Lallement	Renaud	Public Institutions	Ambassade de France en Suisse
Lyasota	Alexey	Student, PhD, Postdoc	PSI
Lyubashevsky	Vadim	Corporate, Investor	IBM Research
Maleq	Dildar Kausar	Corporate, Investor	Dildar.Com / Aprosoft Inc
Mandic	Alexandra	StartUp	Hathor Technologies
Marti	Lucas	Corporate, Investor	Peacock Solutions Sàrl
Martin	Anthony	Incubator, Accelerator	IDS Capital
Martin Monnier	Jean	Student, PhD Scholar, PostDoc	UniGE
Matrone	Luigi	StartUp	Smarterchains
Mazeas	Florent	Student, PhD, Postdoc	Nice Physics Institute
Milne	Gemma	Incubator, Accelerator	Science: Disrupt
Mocellin	Loïc	Corporate, Investor	Oodrive

Munsch	Mathieu	StartUp	Qnami
Mustad	Christian	StartUp	iconyl
Navadeh Toupchi	Morteza	Student, PhD, Postdoc	EPFL
Obikane	Anna	Corporate, Investor	IBM Research, IBM Q Experience
Orepic	Pavo	Student, PhD Scholar, PostDoc	EPFL
Pages	Alexandre	Corporate, Investor	Peacock Solutions Sàrl
Pan	Nettra	University	EPFL
Pedroza	Sarah	Incubator, Accelerator	Hello Tomorrow
Perret	Ludovic	StartUp	CryptoNext and Sorbonne University
Perron	Yohann	Incubator, Accelerator	Alp ICT
Piro	Nicolas	StartUp	MiraEx
Plentz	Maya	Press	Tech Taste Media
Porcellana	Giovanni	Public Institutions	CERN
Pourmoradnasseri	Mozhgan	StartUp	Ketita Labs
Rademaker	Juliana	Student, PhD Scholar, PostDoc	Geneva-Tsinghua Initiative
Ribordy	Grégoire	Corporate, Investor	ID Quantique
Rojas	Carol	Student, PhD, Postdoc	GIT
Rønnow	Henrik M.	University,	EPFL
Rostichir	Michael	University, Public Institutions	CNRS
Ruess	Frank	Incubator, Accelerator	The Boston Consulting Group
Schlesinger	Karl-Georg	University, Public Institutions	Jülich Supercomputing Centre
Schneider	Stephan	Corporate, Investor	IBM Research
Schwarz	Didier	Incubator, Accelerator	Innovaud
Semeshina	Olga	Incubator, Accelerator	Fusion Accelerator
Sinha	Preeti	StartUp	HUMAIN.XYZ
Spreemannn	Gard	Student, PhD, Postdoc	EPFL
Tandonnet	Jean-Baptiste	Corporate, Investor	Peacock Solutions Sàrl
Tavernelli	Ivano	Corporate, Investor	IBM Research
Tawil-Kummerman	Alan	StartUp	SGDL Innovation SA
Turgeon	Maxime	Corporate, Investor	Peacock Solutions Sàrl
Utriainen	Tuuli	Student, PhD Scholar, PostDoc	CERN
Varga	Tamás	StartUp	q-edu-lab.com
Ventura	Jean	Corporate, Investor	Peacock Solutions Sàrl
Ventura	Stefano	University, Public Institutions	Heig-vd
Venturelli	Davide	University, Public Institutions	USRA Research Institute for Advanced Computer Science
Vinet	Maud	University, Public Institutions	CEA-Leti Quantum Engineering Grenoble
Wootton	James	Corporate, Investor	IBM Research
Yokoi	Tomoko	University,	EPFL
Zalamansky	Gilles	Corporate, Investor	Dassault Aviation
Zaplata	Sylvie	Student, PhD Scholar, PostDoc	Innopark

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