

EUROPE

INSIDE  
**QUANTUM  
TECHNOLOGY**

AN ONLINE CONFERENCE

OCTOBER 26-30, 2020

THE FUTURE OF  
QUANTUM COMPUTING,  
QUANTUM NETWORKING,  
QUANTUM SENSORS, AND  
QUANTUM CRYPTOGRAPHY.

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HOLDINGS



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# TOSHIBA

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QUANTUM KEY DISTRIBUTION

# Quantum Cryptography

## Securing the future of a digital society

By adopting Quantum Key Distribution, organisations can **protect their communication infrastructure** from today's vast array of cyber-threats, as well as those of tomorrow. Already, hackers are using techniques such as harvest and decrypt, where data is scraped and stored today with the aim of decrypting it once they have the capability to do so through advances with supercomputers, the realisation of a **quantum computer**, or the discovery of new techniques for cryptanalysis. With QKD, any data which requires **long-term protection** is not only secure in today's IT landscape, but also **future-proofed** to remain protected in the impending **quantum age**.

Robust levels of security are required in many sectors. In **healthcare**, the technology has been applied to ensure

the secure transmission of genome data in Japan. Within the **public sector** QKD is used to provide government with secure communications, in the **finance industry** to **protect banking network infrastructure** and in **aerospace** and **pharmaceuticals** to protect high-value long-life **Intellectual Property**. Equally, in the age of IoT and smart cities, the necessity for a robust, **tamper-proof** and **ultra-sensitive infrastructure** is essential to ensure day-to-day life operates without disruption both now and in the future.

Toshiba is the world leader in high-speed quantum cryptographic systems. Based on decades of scientific research, we have taken on the challenges of this unexplored field and have pioneered the path to practical use.



Fully automated operation with plug & play setup



Easy-to-use graphical user interface.



Integrated key management / delivery system.



Long range



High key rates



Data co-existence

**TOSHIBA**

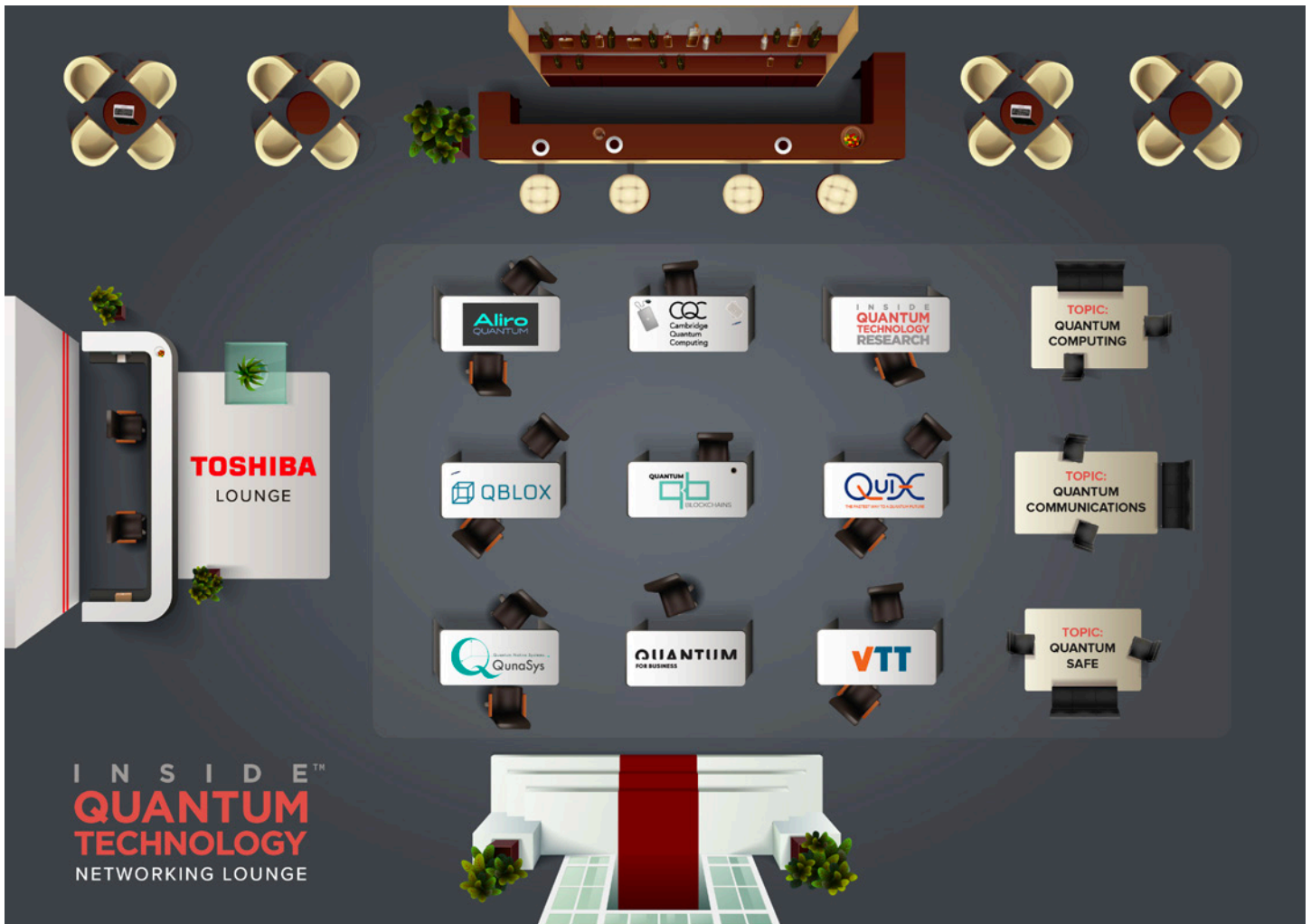
InfoQKD@toshiba.co.uk  
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Toshiba Europe Ltd, 208 Cambridge Science Park,  
Milton Road, Cambridge CB40GZ UK

DAY 1 | MONDAY, OCTOBER 26, 2020

Networking Lounge and Exhibit Hall

13:00 CET (8:00 AM EDT)	<b>Welcome and Introduction to our Sponsors and Exhibitors</b> Guidance will be provided in how to join in the discussions at the tables or in the sponsor meeting rooms.
13:20 CET (8:20 AM EDT)	<b>Networking Lounge is open</b>
16:00 CET (11:00 AM EDT)	<b>The Day's Wrap-Up</b>



Networking Lounge Hours | 14:30 CET (9:30 AM EDT) - 17:30 CET (12:30 PM EDT)

DAY 2 | TUESDAY, OCTOBER 27, 2020

Quantum Computing

12:30 CET (7:30 AM EDT)	<b>Chairperson opens conference</b> Speaker: <b>Christopher Bishop</b> — Chairperson, Chief Reinvention Officer, Improving Careers
12:40 CET (7:40 AM EDT)	<b>Review of the day ahead</b> Speaker: <b>Lawrence Gasman</b> - Inside Quantum Technology, President
12:45 CET (7:45 AM EDT)	<b>Opening keynote:</b> Moderator: Kees Eijkel Speaker: <b>Ronald Hanson</b> — Chair of the Dutch National Agenda, Quantum Technology
13:10 CET (8:10 AM EDT)	<b>The Debate on Quantum Advantage</b> Moderator: <b>Lawrence Gasman</b> Speaker 1: <b>Joseph Emerson</b> — Founder and CEO of Quantum Benchmark, Fellow, CIFAR Quantum Information Science Program, Institute for Quantum Computing & Department of Applied Mathematics, University of Waterloo Speaker 2: <b>Lieven Vandersypen</b> — Co-Founder of QuTech, Co-Director of the Kavli Institute of Nanoscience and Antonie van Leeuwenhoek Professor at Delft University of Technology, the Netherlands Speaker 3: <b>Robert Sutor</b> — IBM Research - VP - IBM Quantum Ecosystem Development Speaker 4: <b>William Zeng</b> — Head of Quantum Research, Goldman Sachs
14:05 CET (9:05 AM EDT)	<b>Quantum computing: Technical and architectural trends</b> Moderator: <b>Kees Eijkel</b> Speaker 1: <b>Catherine McGeoch</b> — Senior Scientist, D-Wave Speaker 2: <b>Philip Makotyn</b> — Sr. Quantum Marketing Manager, Honeywell Speaker 3: <b>Ravi Pillarisetty</b> — Senior Research Scientist, Intel
14:45 CET (9:45 AM EDT)	<b>Break - Visit the Network Lounge</b>

VTT

# VTT to acquire Finland's first quantum computer

The development and construction of Finland's quantum computer will be carried out as an innovation partnership. The project will run for several years and its total cost is estimated at about EUR 20–25 million.

VTT is a multi-technological research organisation that provides R&D and pilot manufacturing services for components relevant for quantum industry. VTT has a long history and experience in working on commercial tunnel junction devices, such as SQUIDs, and detectors, including bolometers, for imaging. VTT has a strong track record of supporting fabless companies with small and mid-volume manufacturing needs.

**More information:**

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Programme Manager,  
Quantum  
himadri.majumdar@vtt.fi  
+358 40 658 9596

Networking Lounge Hours | 14:30 CET (9:30 AM EDT) - 17:30 CET (12:30 PM EDT)

DAY 2 | TUESDAY, OCTOBER 27, 2020 *continued*

Quantum Computing

14:45 CET (9:45 AM EDT)	<b>Break - Visit the Network Lounge</b>
15:05 CET (10:05 AM EDT)	<b>Keynote</b> Moderator: <b>Lawrence Gasman</b> Speaker: <b>Chiara Marletto</b> — Research Fellow at Wolfson College, University of Oxford
15:40 CET (10:40 AM EDT)	<b>Emerging technologies and companies in quantum computing</b> Moderator: <b>Freeke Heijman</b> Speaker 1: <b>Himadri Majumdar</b> — Program Manager, Quantum Technologies, VTT Technical Research Centre of Finland Ltd. Speaker 2: <b>Tony Lawrence</b> — Founder and CEO of Light Rider and VOR Technology Speaker 3: <b>Adriaan Rol</b> — Co-founder and Director of Research & Development, Orange Quantum Systems
16:20 CET (11:20 AM EDT)	<b>Cryo, control and subsystems for quantum computing</b> Moderator: <b>Amber Van Hauwermeiren</b> Speaker 1: <b>Niels Bultink</b> — Co-Founder CEO, Qblox BV Speaker 2: <b>Hans van den Vlekkert</b> — CEO, Quix Speaker 3: <b>Tomek Schulz</b> , Co-founder and CEO, kiutra
17:00 CET (12:00 PM EDT)	<b>End of day – Chairperson closes</b> Speaker: <b>Christopher Bishop</b> — Chairperson, Chief Reinvention Officer, Improving Careers

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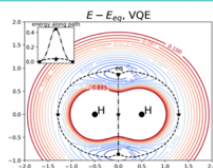
Networking Lounge Hours | 14:30 CET (9:30 AM EDT) - 17:30 CET (12:30 PM EDT)

DAY 3 | WEDNESDAY, OCTOBER 28, 2020

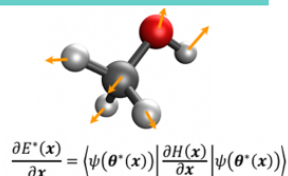
Quantum Computing Software and Applications

12:30 CET (7:30 AM EDT)	<b>Chairperson opens conference</b> Speaker: <b>Christopher Bishop</b> — Chairperson, Chief Reinvention Officer, Improving Careers
12:35 CET (7:35 AM EDT)	<b>Review of the day ahead</b> Speaker: <b>Lawrence Gasman</b> — Inside Quantum Technology, President
12:40 CET (7:40 AM EDT)	<b>Presentation of IQT Research's Forecast of the Quantum Technology Market: Computers, Quantum Safe and the Quantum Networking</b> Speaker: <b>Lawrence Gasman</b> - Inside Quantum Technology, President
13:15 CET (8:15 AM EDT)	<b>Evolution of operating systems for quantum Computers</b> Moderator: <b>Doug Finke</b> Speaker 1: <b>Bettina Heim</b> — Senior Software Engineering Manager, Microsoft Speaker 2: <b>Damien Nguyen</b> — Physicist and Software Engineer/Researcher, Huawei, ProjectQ Speaker 3: <b>Iordanis Kerendis</b> — Head of Quantum Algorithms International, QC Ware

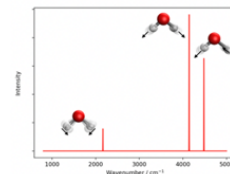
Reaction Path Search



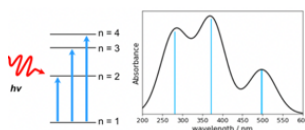
Molecular Dynamics



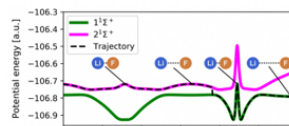
Vibrational Frequency Analysis



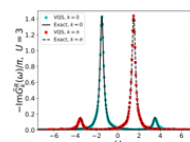
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Networking Lounge Hours | 14:30 CET (9:30 AM EDT) - 17:30 CET (12:30 PM EDT)

**DAY 3 | WEDNESDAY, OCTOBER 28, 2020** *continued*

**Quantum Computing Software and Applications**

14:00 CET (9:00 AM EDT)	<p><b>Quantum emulators and hybrid systems</b>  Moderator: <b>Victor Land</b>  Speaker 1: <b>Ariana Torres</b> — HPC/Quantum computing consultant, SURF  Speaker 2: <b>Richard Versluis</b> — Principal Systems Engineer CSEP at TNO and Director Engineering of the Quantum Computing Division at QuTech  Speaker 3: <b>Steve Brierley</b> — CEO and Founder, Riverlane</p>
14:40 CET (9:40 AM EDT)	<p><b>Break - Visit the Network Lounge</b></p>
15:00 CET (10:00 AM EDT)	<p><b>Keynote</b>  Speaker: <b>Harry Buhrman</b> — Executive Director of QuSoft, Professor of algorithms, complexity theory, and quantum computing at the University of Amsterdam</p>
15:35 CET (10:35 AM EDT)	<p><b>User experiences: Financial services industry</b>  Moderator: <b>Dimitri van Esch</b>  Speaker 1: <b>Carlos Kuchkovsky Jimenez</b> — Chief R&amp;D and Technology Officer - New digital business, BBVA  Speaker 2: <b>Jeffrey Cohen</b> — Founder, Chicago Quantum and President, US Advanced Computing Infrastructure, Inc.</p>
16:00 CET (11:00 AM EDT)	<p><b>User experiences: Aerospace and automotive</b>  Moderator: <b>Koen Groenland</b>  Speaker 1: <b>Michael Hayduk</b> — Deputy Director, Information Directorate, AFRL  Speaker 2: <b>Thomas Strohm</b> — Senior Expert / Coordinator of Quantum Technologies, Robert Bosch GmbH  Speaker 3: <b>Paolo Bianco</b> — Global R&amp;T Cooperation Manager, Airbus</p>
16:30 CET (11:30 AM EDT)	<p><b>User experiences: Pharma and chemicals industry</b>  Moderator: <b>Lawrence Gasman</b>  Speaker 1: <b>Govinda Bhisetti</b> — Principal Investigator and Head of Computational Chemistry Department, Biogen  Speaker 2: <b>Benno Broer</b> — CEO, Qu &amp; Co BV  Speaker 3: <b>Toby Cubitt</b> — Director and Founder, Phasecraft</p>
16:55 CET (11:55 AM EDT)	<p><b>End of day – Chairperson closes</b>  Speaker: <b>Christopher Bishop</b> — Chairperson, Chief Reinvention Officer, Improving Careers</p>
17:30 CET (12:30 PM EDT)	<p><b>Networking Lounge Closes</b></p>

**Be sure to visit the Networking Lounge**

**Monday, October 26, 2020**

**13:00 CET (8:00 a.m. EDT) to 16:00 CET (11:00 a.m. EDT)**

**Tuesday, October 27, 2020 through Friday, October 30, 2020**

**14:30 CET (9:30 a.m. EDT) to 17:30 CET (12:30 p.m. EDT)**



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Networking Lounge Hours | 14:30 CET (9:30 AM EDT) - 17:30 CET (12:30 PM EDT)

DAY 4 | THURSDAY, OCTOBER 29, 2020

Quantum Communications – Day Sponsored by **TOSHIBA**

12:30 CET (7:30 AM EDT)	<b>Chairperson opens conference</b> Speaker: <b>Christopher Bishop</b> — Chairperson, Chief Reinvention Officer, Improving Careers
12:35 CET (7:35 AM EDT)	<b>Review of the day ahead</b> Speaker: <b>Lawrence Gasman</b> — Inside Quantum Technology, President
12:40 CET (7:40 AM EDT)	<b>Message from our sponsor</b>
12:45 CET (7:45 AM EDT)	<b>Keynote: Sponsor</b> Speaker: <b>Taro Shimada</b> — Corporate Vice President and Chief Digital Officer, Toshiba Corporation Speaker 2: Paul Crane -- Converged Network Research Director, BT
13:15 CET (8:15 AM EDT)	<b>Evolution of the Quantum Internet</b> Moderator: Christopher Bishop Speaker 1: <b>Mathias Van Den Bossche</b> — Director, Telecommunication and Navigation Systems R&D, Thales Alenia Space Speaker 2: <b>Saikat Guha</b> — Director, NSF Center for Quantum Networks Associate Professor of Optical Sciences, Electrical & Computer Engineering, and Applied Mathematics, University of Arizona Speaker 3: <b>Prineha Narang</b> — CTO, Aliro Quantum, Evolution of the Quantum Internet



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Quantum Blockchains Inc. is a startup aiming to create functioning Blockchain technology capable of resisting the currently emerging threats from Quantum Computers. The company is planning a radical step, and instead of post-quantum algorithms, it will use the latest achievements of quantum cryptography to create provably secure solutions, which enhance data protection, integrity and processing speed.

"A Simple Voting Protocol on Quantum Blockchain", International Journal of Theoretical Physics, 58, 275-281 (2019)

"Towards Quantum-Secured Permissioned Blockchain: Signature, Consensus, and Logic", Entropy 2019, 21(9), 887

"Multi-Party Quantum Byzantine Agreement without Entanglement", Entropy 2020, 22(10), 1152

Networking Lounge Hours | 14:30 CET (9:30 AM EDT) - 17:30 CET (12:30 PM EDT)

DAY 4 | THURSDAY, OCTOBER 29, 2020 *continued*

Quantum Communications – Day Sponsored by **TOSHIBA**

14:00 CET (9:00 AM EDT)	<p><b>Markets for QKD systems</b>            Moderator: <b>Lawrence Gasman</b>            Speaker 1: <b>Andrew Shields</b> — Head of Quantum Technology at Toshiba Europe            Speaker 2: <b>Axel Foery</b> — Executive VP Quantum-Safe Security, ID Quantique            Speaker 3: <b>Mehdi Bozzo-Rey</b> — Business Development --Quantum, Cambridge Quantum Computing</p>
14:40 CET (9:40 AM EDT)	<p><b>Break - Visit the Network Lounge</b></p>
15:00 CET (10:00 AM EDT)	<p><b>Keynote</b>            Speaker: <b>Stephanie Wehner</b> — Antoni van Leeuwenhoek Professor at Delft University of Technology and Roadmap Leader of the Quantum Internet and Networked Computing initiative at QuTech</p>
15:30 CET (10:30 AM EDT)	<p><b>Message from our sponsor</b></p>
15:35 CET (10:35 AM EDT)	<p><b>Applications and use cases for quantum communications</b>            Moderator: <b>Jesse Robbers</b>            Speaker: <b>Andrew Thain</b> — Quantum Communications Point of Contact, Airbus</p>



Cambridge  
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Computing

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Quantum theory can be used to compute language meaning, allowing us to store and process vastly more words at greater speeds.



Quantum Cryptography and Cybersecurity

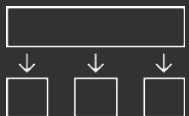
CQC has pioneered a quantum-based solution to eliminate security threats to digital data and communication. We ensure independence and source certifiability to be used for post-quantum encryption algorithms, entropy generation for IoT devices, key generation for certificates, quantum watermarking, and many other use cases.

Networking Lounge Hours | 14:30 CET (9:30 AM EDT) - 17:30 CET (12:30 PM EDT)

DAY 4 | THURSDAY, OCTOBER 29, 2020 *continued*

Quantum Communications – Day Sponsored by **TOSHIBA**

16:05 CET (11:05 AM EDT)	<b>Quantum-safe solutions</b> Moderator: <b>Jesse Robbers</b> Speaker 1: <b>Bruno Huttner</b> – Director of Strategic Quantum Initiatives, ID Quantique Speaker 2: <b>Jaya Baloo</b> – Chief Information Security Officer, Avast Software s.r.o. Speaker 3: <b>Michele Mosca</b> – Founder of the Institute for Quantum Computing, Professor in the Department of Combinatorics & Optimization at the University of Waterloo
16:35 CET (11:35 AM EDT)	<b>Accelerating quantum technologies for communication and sensing</b> Speaker: <b>David Awschalom</b> – Director, Chicago Quantum Exchange
17:05 CET (12:05 PM EDT)	<b>End of day – Chairperson closes</b> Speaker: <b>Christopher Bishop</b> – Chairperson, Chief Reinvention Officer, Improving Careers
17:30 CET (12:30 PM EDT)	<b>Networking Lounge Closes</b>



# Aliiro

## QUANTUM

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Networking Lounge Hours | 14:30 CET (9:30 AM EDT) - 17:30 CET (12:30 PM EDT)

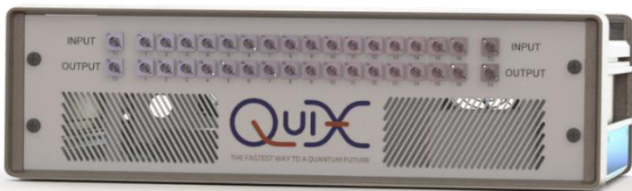
DAY 5 | FRIDAY, OCTOBER 30, 2020

Quantum Sensors, Quantum Policy and Quantum Investments

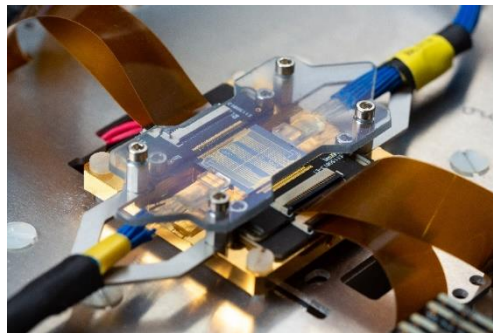
12:30 CET (7:30 AM EDT)	<b>Chairperson opens conference</b> Speaker: <b>Christopher Bishop</b> — Chairperson, Chief Reinvention Officer, Improving Careers
12:35 CET (7:35 AM EDT)	<b>Review of the day ahead</b> Speaker: <b>Lawrence Gasman</b> — Inside Quantum Technology, President
12:40 CET (7:40 AM EDT)	<b>Presentation by Women in Quantum</b> Speaker: <b>Denise Ruffner</b> — Chief Business Officer, Cambridge Quantum Computing
12:55 CET (8:15 AM EDT)	<b>Quantum sensor evolution</b> Moderator: <b>Lawrence Gasman</b> Speaker 1: <b>Jay Hendricks</b> — Deputy Program Manager, NIST on a Chip Speaker 2: <b>Kai Bongs</b> — Director, UK National Quantum Technology Hub in Sensors and Metrology



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Networking Lounge Hours | 14:30 CET (9:30 AM EDT) - 17:30 CET (12:30 PM EDT)

DAY 5 | FRIDAY, OCTOBER 30, 2020 *continued*

Quantum Sensors, Quantum Policy and Quantum Investments

13:40 CET (8:40 AM EDT)	<p><b>Jobs and education in the quantum technology sector</b>            Moderator: <b>Menno Veldhorst</b>            Speaker 1: <b>Araceli Venegas-Gomez</b> — Founder &amp; CEO, QURECA Ltd (Quantum Resources &amp; Careers)            Speaker 2: <b>Dennis Rot</b> — Director Quantum for Business, Cronos Groep            Speaker 3: <b>Ricardo Pérez-Castillo</b> — Quantum Software Engineering, University of Castilla-La Mancha / aQuantum            Speaker 4: <b>Terrill Frantz</b> — Associate Professor of eBusiness and Cybersecurity, Harrisburg University</p>
14:25 CET (9:25 AM EDT)	<p><b>Break - Visit the Network Lounge</b></p>
15:00 CET (10:00 AM EDT)	<p><b>Keynote: Quantum Networking: Emerging Applications and What's Needed</b>            Speaker: <b>Prineha Narang, PhD</b> — CTO, Aliro Quantum, Evolution of the Quantum Internet</p>
15:30 CET (10:30 AM EDT)	<p><b>Message from our sponsor</b></p>

# Prepare for the Quantum Revolution

Quantum Technology will turn the world as we see it upside down. We're at a new dawn. Are you ready for it?

Quantum for Business is the central platform of Quantum Technology in Europe that educates, connects and guides frontrunner businesses who want to lead the quantum revolution. Our mission is to increase the adoption of Quantum Technology in the market by transferring the academic knowledge and expertise to businesses interested in leveraging the potential of quantum.

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Networking Lounge Hours | 14:30 CET (9:30 AM EDT) - 17:30 CET (12:30 PM EDT)

DAY 5 | FRIDAY, OCTOBER 30, 2020 *continued*

Quantum Sensors, Quantum Policy and Quantum Investments

15:35 CET (10:35 AM EDT)	<p><b>Quantum Policy in Europe</b>  Moderator: <b>Freeke Heijman</b>  Speaker 1: <b>Tommaso Calarco</b> — Director, Institute for Quantum Control, Research Center Jülich and Chair, EU Quantum Community Network  Speaker 2: <b>Pascal Maillot</b> — Deputy Head of Unit HPC and Quantum Technologies, European Commission</p>
16:05 CET (11:05 AM EDT)	<p><b>Quantum-hubs in Europe</b>  Moderator: <b>Kees Eijkel</b>  Speaker 1: <b>Andrew Collins</b> — Lecturer and Enterprise Developer, University of Bristol, Quantum Technology Enterprise Centre  Speaker 2: <b>Freeke Heijman</b> — Director Strategic Development, QuTech  Special advisor to the Minister of Economic Affairs and Climate Policy on Quantum Technologies.</p>
16:45 CET (11:45 AM EDT)	<p><b>VCs and the quantum sector in Europe</b>  Speaker 1: <b>Stephen Nundy</b> — CTO &amp; Partner, Lakestar  Speaker 2: <b>Ton van 't Noordende</b> — Position Founder, PHX  Speaker 3: <b>Ekaterina Almasque</b> — General Partner, Open Ocean  Speaker 4: <b>Christophe Jurczak</b> — Co-founder and managing partner, Quantonation</p>
17:15 CET (12:15 PM EDT)	<p><b>End of day – Chairperson closes</b>  Speaker: <b>Christopher Bishop</b> — Chairperson, Chief Reinvention Officer, Improving Careers</p>
17:30 CET (12:30 PM EDT)	<p><b>Networking Lounge Closes</b></p>

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# TOSHIBA

At Toshiba, our vision is to secure the world's communications from threats posed by advances in computing and mathematics. At a time when technological progress has created an almost constant state of data proliferation, the need for the secure transmission of sensitive information has never been more significant. It is essential to protect and future-proof data communication now through the advancement of reliable and ultra-secure quantum cryptography solutions. Our Quantum Key Distribution (QKD) offering applies the fundamental laws of Quantum Physics to secure network communications and is based on decades of scientific research.

## SPONSORS AND EXHIBITORS

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Will Finigan

Co-Founder

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T: (857) 342-0043



Aliro Quantum is a distributed quantum computing cloud platform created by a team of researchers that spun out of Harvard's Quantum Information Science Lab in 2019. We are leading the charge on quantum network market creation by offering the foundational technologies needed for organizations around the world to build powerful quantum systems. An Air Force Research grant recipient, Aliro is already piloting the most accurate quantum network simulation tools while partnering with vendors including IBM Q Network, Rigetti, Honeywell Quantum Solutions, and Hyperion Research to make scalable quantum computing accessible.

past several years, our team has grown to 70 + accomplished scientists focused on creating the best quantum software and cryptography solutions for our customers.

Our research helps the world's most innovative financial, chemical, material science, energy and utilities, automotive, defense, transportation and logistics companies to harness the transformative impact of quantum computing.

### Cambridge Quantum Computing

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Founded in 2014, CQC is a global leader in quantum software and quantum algorithms that help our clients get the best out of existing and developing quantum computers. Over the

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Inside Quantum Technology is the only firm to be dedicated entirely to providing actionable information and analysis for the quantum technology sector. Quantum computer companies, quantum networking firms and service providers, as well as manufacturers of quantum sensors rely on our market research studies, twice-a-year business conferences and our daily news feed. We also serve the needs of materials firms, end users and investors. For more information contact [info@insidequantumtechnology.com](mailto:info@insidequantumtechnology.com)

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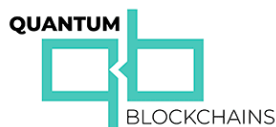
## SPONSORS AND EXHIBITORS

### Quantum Blockchain

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Quantum Blockchains Inc. is a startup aiming to create functioning Blockchain technology capable of resisting the currently emerging threats from Quantum Computers. The company is planning a radical step, and instead of post-quantum algorithms, it will use the latest achievements of quantum cryptography to create provably secure solutions.

The company's founders have co-authored several recognized scientific papers which have established the theoretical basis for the technology. The project will use QKD (Quantum Key Distribution) to create a solution called a true "Quantum Blockchain" in which both cryptographic primitives and consensus algorithms are realized with the help of QKD.

### Qblox

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At Qblox we operate at the frontier of the quantum revolution. With a dedicated team of scientists, engineers and developers we are pushing quantum technology to support scientists worldwide with our scalable and low-latency qubit control equipment. We are the sole providers of quantum control stacks that can be easily integrated with our customers' quantum computers. The stacks combine unlevelled noise performance, low-latency arbitrary control flows and can be scaled up to 100s of qubits. Our company is based in the Netherland and a spinoff of QuTech, which enables us to implement the latest scientific insights and take a position upfront in the worldwide race towards quantum advantage.

### QunaSys

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QunaSys is a software/algorithm development company for quantum computing (QC), with the strong focus on chemical calculation.

Our core competence is the capability to develop algorithm to calculate key physical properties essential for chemical industry and we have already proposed lots of industry-relevant algorithms by ourself or through joint-research with chemical/material companies.

We currently have two offerings: (i) Joint research to develop novel algorithm for chemistry and (ii) Software tool named Qamuy, which enables you to do various chemical calculation on QC and analyze the impact on each company.

### Quantum For Business **QUANTUM** FOR BUSINESS

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Quantum for Business (QFB) is a European initiative with the mission of increasing the adoption of Quantum Technology in the market by transferring the academic knowledge and expertise to businesses interested in leveraging the potential of quantum. QFB is an agnostic non-profit entity that offers its members opportunities for inspiration, education and community building around Quantum Technology. QFB provides this value through a partner program that brings together knowledge from different players in Quantum Technology such as knowledge institutions, hardware/software vendors, consultancy firms and quantum start-ups.

## SPONSORS AND EXHIBITORS

### QuiX

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QuiX offers a plug-and-play integrated and reconfigurable light-based quantum processor that accelerates the way to a quantum future.

QuiX delivers plug-and-play solutions for photonic quantum information processing. Our photonic processors enable arbitrary optical transformations while maintaining quantum coherence. The silicon nitride platform waveguide technology underlying our processors enables low loss and a high degree of reconfigurability.

### VTT

[vttresearch.com/en/ourservices/quantum-technology](http://vttresearch.com/en/ourservices/quantum-technology)

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VTT's Quantum program is an ambitious, holistic approach to Quantum technologies, including Quantum computation. We invest in various different hardware and software innovations to solve problems related to computation, communication, sensors, metrology and algorithms. VTT's ongoing quantum computer procurement, based on superconducting platform, is only one aspect of our Quantum program. We are also actively seeking out industry collaboration on various emerging quantum hardware and software topics.

VTT is multi-technological research organization that provides R&D and pilot manufacturing services to companies, especially fab-less start-ups. VTT has long history and experience of working on quantum hardware for commercial applications. VTT operates in a dynamic ecosystem that includes additional service providers, suppliers, end-users and investors.