QSIP Innovation Intelligence Digest – April 2024

Quantum Sweden Innovation Intelligence Digest (QSIID) is a curated monthly newsletter with external quantum innovation business news from around the globe.

Keysight Technologies, Inc. has introduced a simulation tool and workflow, which is suited for the smooth integration of quantum computers based on superconducting qubits. The QuantumPro, as it's called, brings together the domains of quantum and microwave engineering by clearly and intelligently translating between microwave outputs to adjustable quantum parameters.
Read more here.

During France's National Quantum Day, a 15-year innovation partnership was announced between the French government and five quantum computing companies (Alice & Bob, C12, Pasqal, Quandela and Quobly) to build two universal fault tolerant quantum computers of a significant scale.
Read more here.

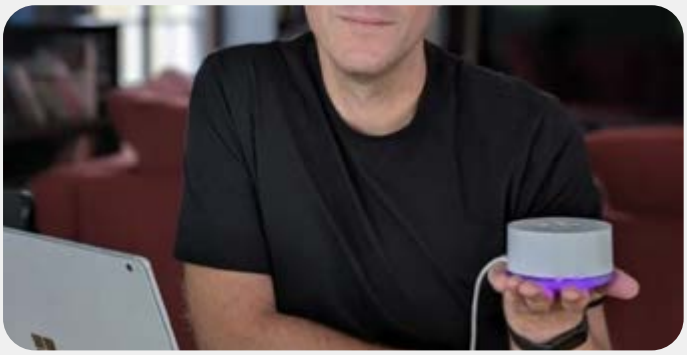
As the potential for quantum computer attacks increases, the need for an extra layer of security becomes increasingly important and of concern to many businesses. With the introduction of HP's Endpoint Security Controller (ESC) chip that is built into select business PCs, customers are offered the most advanced security, which ensuring firmware protection.
Read more here.

Danish quantum company, Kvantify, announces the launch of its first product, Kvantify Koffee, which aims to complement and reduce cost of time-consuming lab experiments by calculating a critical parameter in screening and selecting new drug candidates. This product adds value today using classical computers but will offer even greater potential as quantum hardware evolves.
Read more here.

SeQure Quantum, based in Chile, has created a device that utilizes quantum technology to create random numbers with a high level of security. CEO Paulina Assmann, says "The patented system authenticates itself online and digitally, making it impossible to predict, impervious to faults, and even capable of detecting attempted cyberattacks in real time, something that current code-based technologies lack." It is currently the only random number solution of its kind and operates using the fundamentals of physics.
Read more here.

QSIP – Empowering Sweden's Quantum Innovation Future

For the first time, an EU country has implemented quantum resistant technology to thwart off cyberattacks and data harvesting. QANplatform is the company that developed the technology, which protects government-owned cybersecurity infrastructure against quantum computing attacks, but due to confidentiality and security reasons cannot disclose the EU country utilizing their technology.
Read more here.



Quantum computing for everyone. That is the goal of the Kickstarter campaign set to launch mid-March and started by quantum theorist and author Christopher Ferrie. The personal quantum computer emulator is called "The Quokka" and it is Ferrie's attempt to democratize access to quantum computing and "empower the next generation of scientists, engineers, and innovators."
Read more here.

Antaris, the leading software platform for space missions, will partner with SpeQtral to create, deliver, and deploy quantum-safe key distribution satellites for government and commercial operators. The satellite system will employ SpeQtral's Quantum Key Distribution (QKD) technology to establish and distribute symmetric encryption keys enabling two parties to produce shared secret keys. This technology will thus allow for secure transfer of information from two points anywhere in the world, even in the presence of eavesdropping adversaries.
Read more here.

Dutch quantum technology company Orange Quantum Systems (OrangeQS) plans to focus on the industrial development and production of quantum chips. This development is key to expanding the capabilities of quantum computers to outperform supercomputers. Companies like OrangeQS are forging a path for the industrial use of quantum chips and helping to accelerate their design.
Read more here.

Curious about how to navigate the Deep State funding landscape? Read this article to learn strategies for securing funding and how to accelerate commercialization.
Read more here.

Classiq and Quantum Intelligence Corp. (QIC, Korea) have laaunched at joint research initiative to advance drug development by applying quantum computing in pharmacology. This collaboration "leverages Classiq's platform to pioneer advancements in discovering and designing novel drug candidates alongside predicting potential side effects and interactions" while simultaneously highlighting QIC's innovative drug development platform; ushering in a "new era of enhanced drug development."
Read more here.

Exciting announcement from Microsoft and Quantinuum, say that they've developed "most error-free quantum computing system yet." Microsoft claims it was able to run more than 14,000 experiments without any errors. This comes at a time when both IBM and Google boast iterative quantum computing hardware, which is still not used in any practical applications.
Read more here.

In case you missed it, Industry Day at WACQT workshop was a bustling success with over 90 participants from both industry and academia.
Read more about the event here.