



## Press Release

Geneva, 15<sup>th</sup> December 2017

### **ID Quantique announces Quantum-Safe Security Advisory Board**

**ID Quantique SA (IDQ), the world leader in quantum-safe security solutions, is proud to announce its Advisory Board. Including experts from different domains, the role of the Advisory Board is to help bridge the gap in understanding between conventional and quantum cryptographers and between technology and market, as well as to provide the best possible security in IDQ's encryption and key management solutions based on both quantum and mathematical properties.**

The Advisory Board includes the following experts:

#### **Prof Dr Johannes Buchmann**

*Prof of Computer Science and Mathematics at Technical University of Darmstadt*

He is also Vice-Director of the Center for Advanced Security Research Darmstadt and Chairman of CAST – Competence Center for Applied Security Technology, Darmstadt. Prof Buchmann is a cryptographic expert, notably in post quantum algorithms and number theory. He develops cryptographic algorithms, such as encryption and electronic signatures. Prof Buchmann is particularly interested in questions of data protection and privacy in the internet.

#### **Prof Artur Ekert**

*Professorial Fellow in Quantum Physics and Cryptography at Merton College Oxford and Mathematical Institute Oxford  
Director of the Center for Quantum technologies in Singapore*

Prof Ekert is inventor of the groundbreaking E91 protocol in Quantum Key distribution based on entangled photons. His research extends over most aspects of information processing in quantum-mechanical systems, and notably in a cross-disciplinary field bringing together theoretical and experimental quantum physics, computer science and information theory. Prof Ekert is passionate about photons, scuba diving and flying across parts of Africa to observe the vineyards.

#### **Prof Nicolas Gisin**

*Professor of Applied Physics at the University of Geneva, Switzerland, and co-founder of ID Quantique*

His interests cover a wide range of topics, from the foundations of quantum physics and philosophy, to applications in classical and quantum communications. His leadership in quantum communication is recognized worldwide. In particular, he received two consecutive European ERC Advanced Grants, the first John Steward Bell prize and, in 2014, the Swiss Science prize delivered by the Marcel Benoist Foundation. His interests are physics and field-hockey.

#### **Prof Sir Peter Knight**

*Senior Research Investigator in Physics at Imperial College London  
Senior Fellow in Residence at the Kavli Royal Society International Centre, Chicheley Hall*

Sir Peter is a member of the UK Quantum Technology Initiative Strategy Advisory Board and he chairs the new Quantum Metrology Institute at the National Physical Laboratory. His research centres on quantum optics, strong field physics, and especially on quantum information science. He is passionate about bringing quantum communications into the mainstream.

**Prof Michele Mosca (TBC)**

*Co-founder of the Institute for Quantum Computing and Professor of Mathematics at the University of Waterloo*

Prof Mosca's current research is on quantum computation, cryptographic tools designed to be safe against quantum technologies, and software tools for quantum information processing systems. He co-founded evolutionQ Inc. to provide services and products that enable organizations to move to quantum-safe systems and practices, and is a strong advocate of global standardization of quantum-safe systems. He is also famous for the Mosca equation "If  $X+Y>Z$  then Worry!"

**Prof Hugo Zbinden**

*Leader of the Quantum Technologies Group at the University of Geneva and co-founder of ID Quantique*

Hugo Zbinden has been working in the field of Quantum Cryptography for more than 20 years. His research spans Quantum Communication, Single photon detection, Quantum Metrology and Quantum Biophotonics, always looking out for practical applications. He is an advocate for sustainable development and bicycle friendly cities.

**About ID Quantique**

Founded in 2001 as a spin-off of the Group of Applied Physics of the University of Geneva, ID Quantique is the world leader in quantum-safe crypto solutions, designed to protect data for the long term. The company provides quantum-safe network encryption, secure quantum key generation and Quantum Key Distribution solutions and services to the financial industry, enterprises and government organizations globally. IDQ's Quantum Random Number Generator has been validated according to global standards and independent agencies, and is the reference in highly regulated and mission critical industries - such as security, encryption and online gaming - where trust is paramount.

IDQ's products are used by government, enterprise and academic customers in more than 60 countries and on every continent. As a privately held Swiss company focused on sustainable growth, IDQ is proud of its independence and neutrality, and believes in establishing long-term and trusted relationships with its customers and partners. For more information, please visit [www.idquantique.com](http://www.idquantique.com).

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