

MagiQ Technologies and Quantum Communications Victoria Form JV

248 words
28 February 2008
Wireless News
English
(c) Copyright 2008 M2 Communications, Ltd. All Rights Reserved

MagiQ Technologies, a "quantum information processing" (QIP) company, this week announced the success of its three-year joint venture program.

The company said the QCV joint venture has produced the world's first commercial source of single photons (single particles of light), which are a crucial component of quantum communication systems. MagiQ will collaborate in development and will participate in the sales and marketing of these new products.

The commercial source of individual photons using diamond based quantum technology has been developed by **Quantum Communications Victoria** (QCV) within the School of Physics at The University of Melbourne, Australia. The single photon source debuted at this week's Optical Fiber Communication Conference and Exposition (OFC) 2008 in San Diego.

The technology uses the properties of diamond to produce single particles of light at room temperature on demand. The device which can be accessed with a standard optical fiber connection has the potential to be used for many applications including as a component in secure telecommunications systems, for quantum metrology and other quantum based applications.

"The creation of great wealth based on a new industry leveraging quantum mechanics will be enabled by bringing together the public and private sectors," said Artur Ekert, Professor of Quantum Physics at the University of Cambridge. "MagiQ and **Quantum Communications Victoria** are doing just that today."

Comments on this story may be sent to newsdesk@closeupmedia.com

Distributed via M2 Communications Ltd - <http://www.m2.com>

Document WLNW000020080301e42s0000a