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Press Release

QuantumWise A/S today announces

- the establishment of a new subsidiary, **QuantumWise Japan KK**, to serve the Japanese market, and
- the launch of a **collaborative study with Tokyo University of Science** about the design and applications of nanodevice simulations, specifically regarding AC response and thermoelectric materials.

QuantumWise Japan KK is the first overseas subsidiary of QuantumWise A/S, and it was established on 1st September 2011 to handle sales in Japan and support of Japanese customers. The subsidiary is managed by **Dr. Shinji Usui**, formerly manager of the nanotechnology business unit at Cybernet Systems Co., Ltd. that previously marketed QuantumWise's products in Japan. With 15 years experience in the field of nanotechnology modeling, Dr. Usui is able to provide high-level technical and scientific support to QuantumWise's growing customer base in Japan.

QuantumWise A/S CEO **Dr. Kurt Stokbro** says: *"The Japanese market is very important to our business, and therefore I am very pleased to establish our subsidiary in Japan. This way we can better serve our customers, providing a shorter path from customer requests to new features in our software."*

QuantumWise Japan KK has offices in Nishi-Shinjuku in Tokyo, and also at Tokyo University of Science for the purpose of participating in a collaborative study about *Design and Applications of Nanodevice Simulations* with **Dr. Takahiro Yamamoto** of the Department of Liberal Arts (Physics) at Tokyo University of Science.

The study's primary goal is to combine key knowledge from the two parties. The comprehensive simulation software tools for nanoscale devices (**Atomistix ToolKit, ATK**) developed by QuantumWise A/S will be augmented with new methods based on the advanced theoretical research performed by Dr. Yamamoto.

The collaboration started on 1st September 2011, and will run for two years. The operation of the collaborative study is supported by the Technology Licensing Organization of Tokyo University of Science.

Background information

In the collaborative study, the theoretical framework and corresponding simulation tools, as well as application case studies, will be developed in two primary areas:

1. **AC response properties of nanoscale devices**; these properties are of the utmost importance to understand in order to be able to design novel high-frequency and ultra-fast nanoscale devices.
2. **Thermoelectric figure-of-merit in nanoscale materials**; the efficiency of the thermoelectric conversion rate is a key aspect for the development of next-generation thermoelectric devices.

The development of the theoretical models will be performed by Dr. Yamamoto, and the results will be published in journals and presented at both domestic Japanese and international conferences. QuantumWise Japan KK and QuantumWise A/S will implement the models into ATK, and also develop case studies about AC response and thermoelectric applications.

The new software functionality will hopefully accelerate the practical realization of novel devices in these areas. The collaborative study also wishes to promote an R&D methodology founded on a combination of theory, simulation, and experimentation, and hopes that the collaboration and the methods developed therein will contribute to the advancement of state-of-the-art studies of nanoscale devices.

About QuantumWise

QuantumWise A/S is a privately held Danish company founded in 2008 and located in Copenhagen. Employing some of the world's leading experts on quantum-mechanical modeling, the company is developing state-of-the-art software for simulations of electrical and structural properties of nanoscale materials and devices. The company sells its products on all continents via a widespread distributor network, and counts among its customers several leading-edge electronics companies, universities and government laboratories.

Media contact:

Kurt Stokbro, +45 5132 0610

e-mail: kurt.stokbro@quantumwise.com