



## JSPS Alumni Club in Norway – NewsLetter Vol. 6(May 13, 2021)

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### **Norway - Japan Quantum Computing Webinar (March 9th, 2022)**

The JSPS alumni club Norway, together with Innovation Norway and the Research Council organized a well-received webinar on the topic of Quantum Computing. At this webinar four expert speakers from Norway and Japan presented both concrete insights into two promising applications of quantum computing, as well as gave a glimpse into the state of development of quantum computing hardware.

Professor Kae Nemoto (NII) presented quantum simulation, which e.g. promise to help simulate the properties of novel functional materials. Dr Franz Fuchs (SINTEF, Norway) presented a talk about the potential of quantum computing for the solution of large optimization problems, relevant in both academia and industry, ranging from quantum chemistry to machine learning, from finance to logistics.

In Professor Jaroen Danon (NTNU, Norway) talk, he presented an overview of the development of so called solid-state quantum-dot-based spin qubits and discussed the main challenges for creating reliable and scalable spin qubits.

Asst. Professor Mamoru Endo presented a promising quantum computation technology, which using photons as information carriers.

### **Norway-Japan symposium "Experimental Chemistry of Complex Systems" (March 15 & 16th, 2022)**

On March 15 and 16, a hybrid symposium on the theme “Experimental Chemistry of Complex Systems” was held at Oslo University’s Department of Chemistry. The event was organized by the JSPS Alumni Club in Norway (Activity Seminar Applications by ACN) as part of a collaboration between the Hylleraas Centre for Quantum Molecular Sciences and three Japanese research groups. In addition to on-site and online lectures by researchers from Norway and Finland, a number of Japanese professors participated online from Japan. There was also time for presentations on scholarships and Norway-Japan collaboration from the Embassy of Japan in Norway, ACN, and JSPS Stockholm.

### **Message from the Chair, Dr. Anders Øverby**

Dear all members of ACN. As we are getting closer to the summer, ACN currently goes through interesting processes with deciding a new board for the next 3-year term, at the same time as the Director of JSPS Stockholm Office has been replaced. In that regard, I wish to thank Director Tsumoto for his important role and important efforts in establishment and development of our network. Now we welcome the new Director, Professor Kuroda, to Scandinavia. We look forward to the continued collaboration with JSPS Stockholm Office.

On behalf of JSPS Alumni Club in Norway, Dr. Michiko Atsumi