



QUANTUM TECHNOLOGY CREATING THE FUTURE!

~How collaboration of Japanese and Danish researchers is contributing to current and future innovation ~

Thursday, 12 April 2018

19 March 2018

Invitation to the world of Quantum technology

The Danish Ministry of Higher Education and Research and the Royal Danish Embassy in Tokyo are pleased to organize this seminar “QUANTUM TECHNOLOGY CREATING THE FUTURE!” in Tokyo, Japan.

Today, technical challenges and social issues cannot be solved by only one country. Technologies such as next processing, data analysis, and cyber security are gaining strong attention among both academia and industries. Japan and Denmark have a long research collaboration history within quantum technology since Yoshio Nishina (Former president of RIKEN) studied at Niels Bohr Institute in Denmark in 1927 and invited Niels Bohr (Nobel Prize Physicist) to RIKEN in 1937. “Quantum Technology” is chosen as a research seminar topic this year because it’s an area in which international research collaboration is essential. Carlos Moedas, the Commissioner of Research, Science and Innovation of the European Commission, and Yoshimasa Hayashi, the Minister of the Ministry of Education, Culture, Sports, Science and Technology, Japan agreed in January 2018 to strengthen cooperation between EU and Japan within this area.

The aim of this seminar is to discuss what would be possible and how will our future life look like if the quantum technologies develop thanks to the research collaboration around the world. The invited speakers will give a talk on variety of topics from fundamental research to future applications including tangible examples.

We hope this seminar is inspirational and provides a great match-making environment for talents and key persons from various fields to create new relationship for the start of new projects and accelerate technical development of both countries.

We look very much forward to your participation.

Contact: Akiko Kamigori (Senior Commercial Officer, Royal Danish Embassy)
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TECHNICAL SEMINAR

QUANTUM TECHNOLOGY CREATING THE FUTURE!

~ HOW COLLABORATION OF JAPANESE AND DANISH RESEARCHERS IS CONTRIBUTING TO THE FUTURE INNOVATION ~

Date

12 April 2018

10:00 – 17:00 (Door open 9:30)

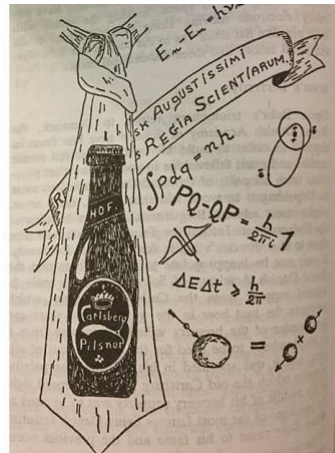
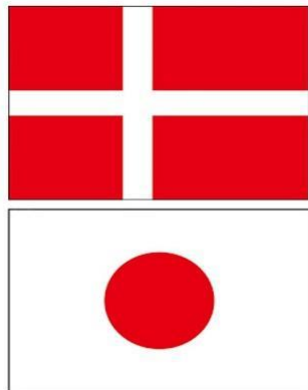
(Networking reception: 17:00-18:00)

Venue

Ground floor, DNP Gotanda Building Hall
3-5-20 Gotanda, Shinagawa-ku Tokyo 141-8001

Language

English



Program

*Speaker and Program may subject to change

TIME	TITLE	SPEAKER
09:30	Registration	
10:00	Opening remarks	Mr. Søren Pind Minister, Danish Ministry of Higher Education and Science

AM SESSION: (SPEECH 30 MIN. Q&A 5 MIN.)

Chairperson: Dr. Yoshihisa Yamamoto

Program Manager for Impulsive Paradigm Change through Disruptive Technologies Program (ImPACT)
of Council for Science, Technology and Innovation, Cabinet Office, Government of Japan
Emeritus Professor, Stanford University
Emeritus Professor, National Institute of Informatics

10:05	TBD	Dr. Jan W. Thomsen Professor, Head of Niels Bohr Institute, The University of Copenhagen
10:40	Optical Lattice Clocks: Seeking for a New Second	Dr. Hidetoshi Katori Professor, Department of Applied Physics, Graduate School of Engineering, The University of Tokyo Chief Scientist, Katori Quantum Metrology Laboratory, RIKEN
11:15	Hybrid quantum systems based on superconducting circuits	Dr. Yasunobu Nakamura Professor, Research Center for Advanced Science and Technology, The University of Tokyo Team Leader, Center for Emergent Matter Science, RIKEN
11:50	Lunch	

PM SESSION: (SPEECH 30 MIN. Q&A 5 MIN.)

Chairperson: Dr. Yoshihisa Yamamoto

Program Manager for Impulsive Paradigm Change through Disruptive Technologies Program (ImPACT)
of Council for Science, Technology and Innovation, Cabinet Office, Government of Japan
Emeritus Professor, Stanford University
Emeritus Professor, National Institute of Informatics

13:15	TBD	Dr. Kae Nemoto Principles of Informatics Research Division, National Institute of Informatics
13:50	Quantum sensing of fields and forces beyond the limits of the Heisenberg uncertainty	Dr. Eugene Simon Polzik Professor, Centre for Quantum Optics (QUANTOP), Niels Bohr Institute, The University of Copenhagen
14:25	Basic research activities in Japanese telecom company: toward quantum information and communication technologies	Dr. Tetsuomi Sogawa Director, NTT Basic Research Laboratories, Nippon Telegraph and Telephone Corporation
15:00	Break	
15:15	TBD	Dr. Seigo Tarucha Professor, Department of Applied Physics, Graduate School of Engineering, The University of Tokyo Deputy Director, RIKEN Center for Emergent Matter Science, RIKEN
15:50	Photonic quantum circuits and quantum metrology	Dr. Shigeki Takeuchi Professor, Department of Electronic Science and Engineering, Graduate School of Engineering, Kyoto University
16:25	Using Topology to Build a Better Qubit	Dr. Charlie Marcus Centre for Quantum Devices and Station Q Copenhagen, Niels Bohr Institute, The University of Copenhagen
16:55	Closing remarks	TBD Ministry of Education, Culture, Sports, Science and Technology, Japan

Networking reception

Venue

2F, DNP Gotanda Building Hall, 3-5-20 Gotanda, Shinagawa-ku Tokyo 141-8001

TIME	TITLE	SPEAKER
17:00	Registration and Networking	
17:15	Welcome speech	TBD
17:55	Closing speech	TBD
18:00	Close	

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