



MINISTRY OF FOREIGN AFFAIRS
OF DENMARK
Invest in Denmark

COPENHAGEN
CAPACITY

DENMARK QUANTUM HUB

INVITATION

NOVEMBER 22ND 2019 - COPENHAGEN

Eigtveds Pakhus, Strandgade 25 G, Copenhagen

DENMARK IS A LEADING HUB IN EUROPE FOR R&D WITHIN QUANTUM. INVEST IN DENMARK AND COPENHAGEN CAPACITY INVITE YOU TO ATTEND THIS INVITE-ONLY EVENT FOR COMPANIES WORKING WITH AND INVESTING IN QUANTUM TECHNOLOGY AND SCIENCE. COME NETWORK WITH YOUR PEERS AND HEAR FROM THE PEOPLE AT THE VERY CUTTING EDGE OF QUANTUM IN DENMARK (SEE SPEAKERS BELOW). KEY TOPICS OF THE EVENT ARE:

- Quantum Electronic Computing
- Quantum Communication
- Quantum Electronic Materials
- Quantum Sensing
- Photonic Quantum Technology

FOR MORE INFORMATION AND REGISTRATION CONTACT:



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SPEAKERS

MODERATOR: DR. CATHAL MAHON

CHARLES MARCUS - MICROSOFT SCIENTIFIC DIRECTOR & PROFESSOR AT THE NIELS BOHR INSTITUTE

Topic: Advances towards scalable quantum memory: Designing a scalable multi-qubit architecture.

JONATAN KUTCHINSKY – CO-FOUNDER & CEO OF QDEVIL

Topic: Improving the science in quantum electronics.

ULRIK LUND ANDERSEN – PROFESSOR AT THE TECHNICAL UNIVERSITY OF DENMARK (TBC)

Topic: Quantum safe cryptography and scalable quantum networks.

KURT STOKBRO – FOUNDER OF QUANTUMWISE & DIRECTOR OF SYNOPSIS DENMARK

Topic: Business adventures in the quantum field.

LEIF KATSUO OXENLØVE – PROFESSOR AT THE TECHNICAL UNIVERSITY OF DENMARK

Topic: Communication in the era of quantum computing.

JAN WESTENKÆR THOMSEN – PROFESSOR & INSTITUTE LEADER OF THE NIELS BOHR INSTITUTE

Topic: Quantum sensing: New approaches to sensing.

JÖRG HUBNER – DIRECTOR, NATIONAL CENTRE FOR NANO FABRICATION AND CHARACTERIZATION

Topic: Services and competences offered by DTU Nanolab within nanofabrication and characterization to industry.

JAN HALD – TEAM LEADER & SENIOR SCIENTIST AT THE NATIONAL METROLOGY INSTITUTE

Topic: Quantum metrology and ultra-stable laser sources.

PETER LODAHL – PROFESSOR AT THE NIELS BOHR INSTITUTE

Topic: Toward the quantum internet: Advances in quantum hardware.

CHARLOTTE MARK – MANAGING DIRECTOR MICROSOFT DEVELOPMENT CENTER COPENHAGEN

Topic: Introduction to Microsoft Quantum Materials Lab.

PETER KROGSTRUP – MICROSOFT SCIENTIFIC DIRECTOR & PROFESSOR AT THE NIELS BOHR INSTITUTE

Topic: Tour of Microsoft Quantum Materials Lab in Denmark.

NIELS HERZOUG – CEO OF SPARROW QUANTUM (TBC)

Topic: Single photon chips with high efficiency: Photonics research just got a whole lot easier.

THE EVENT IS ORGANISED IN COLLABORATION WITH:





DENMARK – A EUROPEAN QUANTUM HUB

AGENDA NOVEMBER 22ND 2019

EVENT MODERATED BY DR. CATHAL MAHON

REGISTRATION & WELCOME

08.30-09.00	Registration opens
09.00-09.15	<p>Welcome Representative from Danish industry or government.</p> <p>Subject Denmark as an attractive investment- and development environment for quantum R&D.</p>

QUANTUM ELECTRONIC COMPUTING

09.15-10.00	<p>Charles Marcus, Professor – KEYNOTE Microsoft Scientific Director & Professor at The Niels Bohr Institute.</p> <p>Subject Advances towards scalable quantum memory: Designing a scalable multi-qubit architecture.</p>
10.00-10.20	<p>Jonatan Kutchinsky Co-founder and CEO of QDevil.</p> <p>Subject Improving the science in Quantum Electronics.</p>

COFFEE BREAK

QUANTUM ELECTRONIC MATERIALS

10.50-11.10	<p>Kurt Stokbro Former associate professor at Technical University of Denmark, Founder of QuantumWize and Director of Synopsis Denmark.</p> <p>Subject Business adventures in the quantum field.</p>
11.10-11.30	<p>Jörg Hübner Director at The National Centre for Nano Fabrication and Characterization (DTU Nanolab).</p> <p>Subject Services and competences offered by DTU Nanolab to industry.</p>



QUANTUM COMMUNICATION

11.30-11.50	<p>Ulrik Lund Andersen, Professor Professor at the Technical University of Denmark – Department of Physics.</p> <p>Subject Ultra secure communication and quantum safe cryptography with QKD.</p>
11.50-12.10	<p>Leif Katsuo Oxenløwe, Professor Professor at the Department of Photonics, Technical University of Denmark.</p> <p>Subject Communication in the era of quantum computing (TBC).</p>

LUNCH AND NETWORKING

QUANTUM SENSING

13.00-13.20	<p>Jan Westenkær Thomsen, Professor Professor and Head of The Niels Bohr Institute – Copenhagen University.</p> <p>Subject Quantum sensing: New approaches to sensing.</p>
13.20-13.40	<p>Jan Hald Team Leader and Senior Scientist at The National Metrology Institute, Technical University of Denmark.</p> <p>Subject Quantum metrology and ultra-stable laser sources.</p>

PHOTONIC QUANTUM TECHNOLOGY

13.40-14.00	<p>Peter Lodahl, Professor Director of Center for Hybrid Quantum Networks at The Niels Bohr Institute, Copenhagen University and Co-founder of Sparrow Quantum.</p> <p>Subject Toward the quantum internet: Advances in quantum hardware.</p>
14.00-14.20	<p>Niels Herzoug CEO of Sparrow Quantum</p> <p>Subject Single photon chips with high efficiency: Photonics research just got a whole lot easier.</p>



WRAP-UP

14.20-14.35	Wrap-up and Coffee break
14.35-15.30	Transport to Lyngby by bus

LAB TOUR OF MICROSOFT QUANTUM MATERIALS LAB AND RECEPTION

15.30-15.45	<p>Charlotte Mark Managing Director Microsoft Development Center Copenhagen.</p> <p>Subject Welcome and introduction to Microsoft Quantum Materials Lab.</p>
15.45.00-16.45	<p>Peter Krogstrup, Professor Microsoft Scientific Director & Professor at The Niels Bohr Institute.</p> <p>Subject Tour of Microsoft Quantum Materials Lab.</p>
16.45-17.45	<p>Reception at Microsoft Development Center Copenhagen Microsoft cordially invites participants in the quantum day to a reception at their premise in Lyngby.</p>
17.45-18.30	<p>Transport back to The Foreign Ministry Transfer by bus back to the Ministry of Foreign Affairs of Denmark.</p>

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