

# Programme

## Day 1

Tuesday 17 May

08:30 **Coffee / tea in Maas**

09:10 **Intro and welcome**

Henk Kamp, Minister of Economic Affairs

09:20 Günther Oettinger, European Commissioner for Digital Economy and Society

09:30 **Plenary**

Leo Kouwenhoven, QuTech

09:40 **Ceremony for the hand-over of the Manifesto  
to Commissioner Oettinger and Minister Kamp**

With:

- Alain Aspect
- Paolo Bianco
- Michael Bolle
- Tommaso Calarco
- Freeke Heijman
- Leo Kouwenhoven

10:00 **Plenary**

Alain Aspect, Institut d'Optique

10:15 **Plenary**

Michael Bolle, Robert Bosch GmbH

10:30 **Plenary**

Mike Mayberry, Intel

10:45 **Coffee / tea in Maas and Opening of Quantum Expo (Expo room)**

**11:15 Panel discussion on quantum strategy in Europe**

Moderated by Cora van Nieuwenhuizen, Member of European Parliament

Reflection on speakers by Krysta Svore, Microsoft

Panelists:

- Alain Aspect, Institut d'Optique
- Michael Bolle, Robert Bosch GmbH
- Leo Kouwenhoven, QuTech
- Mike Mayberry, Intel
- Krysta Svore, Microsoft

**12:00 Panel discussion on quantum technology approaches within European member states**

Chaired by Maive Rute, JRC

Panelists:

- Vladimir Buzek, Slovak Academy of Sciences
- Freeke Heijman, Ministry of Economic Affairs, Netherlands
- Paul Indelicato, Office of Secretary of State for Higher Education and Research, France
- Sir Peter Knight, UK Quantum Technology Initiative Strategy Advisory Board
- Anna Plater-Zyberk, National Science Centre, Poland

**12:45 Video message from Serge Haroche**

**12:50 Buffet lunch in Moezel**

**14:00 Parallel working sessions on the scientific content of the Quantum Manifesto**

From 16.00 on, the results of the parallel working sessions can be found at

<http://j.mp/qe2016-session-results>

**Quantum Communication** (Room: Amstel 2)

Chaired by Nicolas Gisin, University of Geneva and Wolfgang Spahn, KEYMILE

- Ronald Hanson, QuTech, Netherlands
- Kelly Richdale, ID Quantique, Switzerland
- Andrew Shields, Toshiba, UK
- Tim Spiller, Qucom hub, York University, UK
- Qiang Zhang, University of Science and technology, China

**Quantum Simulation** (Room: Malta/Wisla)

*Chaired by Paolo Bianco, Airbus Defence & Space and Iuliana Radu, IMEC*

- Tilman Esslinger, ETHZ, Switzerland
- Maciej Lewenstein, ICFO, Spain
- Daniel Lidar, University of Southern California, USA
- Andreas Wallraff, ETHZ, Switzerland

**Quantum Computing** (Room: Amstel 1)

*Chaired by Daniel Esteve, CEA Saclay and Thomas Strohm, Robert Bosch GmbH*

- Rainer Blatt, University of Innsbruck, Austria
- David DiVincenzo, RWTH Aachen, Germany
- Jeremy O'Brien, University Bristol, UK
- Walter Riess, IBM Research, Zürich, Switzerland
- Lieven Vandersypen, QuTech, Netherlands

**Quantum Sensing and Metrology** (Room: Amstel 3)

*Chaired by Ian Walmsley, University Oxford and Thierry Debuisschert, Thales Research & Technology*

- Konrad Banaszek, University of Warsaw, Poland
- Trevor Cross, e2v, UK
- Bruno Desruelle, MuQuans, France
- Fedor Jelezko, University of Ulm, Germany
- Helen Margolis, UK National Physical Laboratory, UK

**Quantum Software/Algorithms** (Room: Taag)

*Chaired by Ignacio Cirac, Max Planck Institute of Quantum Optics and Mike Mayberry, Intel*

- Andris Ambainis, University of Latvia, Latvia
- Harry Buhrman, University of Amsterdam, Netherlands
- Artur Ekert, Oxford, UK / Singapore
- Krysta Svore, Microsoft
- Matthias Troyer, ETH Zurich, Switzerland

15:30

**Coffee break in Maas**

16:00 **Plenary**  
Mike Lazaridis, Quantum Valley Investments

16:30 **Plenary**  
Charles Marcus, University of Copenhagen

17:00 **Closing**  
Tommaso Calarco, University of Ulm, IQST

18:30 **Dinner at the Harbourclub restaurant**  
(Boats are leaving from the pier next to the Europe building)

**Piano quantum intermezzo before appetizer**

**Plenary dinner speakers:**

- Anton Zeilinger, University of Vienna
- Krysta Svore, Microsoft

22:00 **Transport to hotels**

## Day 2

Wednesday 18 May

08:30 **Coffee / tea in Maas**

09:00 **Opening**

Bertholt Leeftink, DG of Enterprise and Innovation, Ministry of Economic Affairs

09:10 **Plenary**

John Martinis, Google

09:40 **Panel discussion on industry**

Chaired by Trevor Cross, e2v

Panelists:

- Paolo Bianco, Airbus
- Markus Matthes, ASML
- Mike Mayberry, Intel
- Eamonn Murphy, ESA / ESTEC
- Kelly Richdale, IDQ
- Andrew Shields, Toshiba
- Maud Vinet, LETI

10:40 **Coffee break**

11:10 **Panel discussion on quantum technology approaches outside of Europe**

Chaired by Gail Kent, CNECT

Panelists:

- Artur Ekert, Oxford, on Singapore
- Mike Lazaridis, Quantum Valley Investments, on Canada
- Charles Marcus, University of Copenhagen, on U.S.
- Qiang Zhang, University of Science and technology, on China
- Marc de Jong, McKinsey & Company, on global trends

12:10 **Closing**

- Paul de Krom, Applied Scientific Research (TNO)
- Markus Matthes, ASML
- Jo de Boeck, IMEC

12:30 **Buffet lunch in Moezel**

**Optional QuTech lab tour in Delft**

(Buses depart at 13:30 from Kiss & Ride next to the Europe Building)