



With the support of the **Quantum Support Action**
financed by the European Commission

European Quantum Technologies Conference

EQTC 2019

Registration and abstract submission are opened

[Link to EQTC website](#)



Grenoble, France

February 18-22, 2019

EQTC 2019 is the 1st international conference of the European Quantum Flagship, providing a full coverage of European and International advances in quantum technologies.

a full update on the European Flagship momentum, strategies and opportunities including reports from the Strategic Research Agenda, Innovation, Gender, and Education Working Groups of the Quantum Flagship.

Engage on discussions on the Strategic Research Agenda of each pillar of the Flagship (computing, communication, sensing and metrology, communication, basic science and cross cutting topics, and the Innovation strategy in specific sessions.

Meet key partners and actors of the QT community at the exhibition booths
the European and International academic and industrial QT communities

Benefit from specific sessions such as standardization, quantum challenges for aerospace or international cooperation.

New! Join the **Education Workshop on Feb. 19-20**. Participation is included in the normal EQTC registration (with specific notification, see later), or can be secured through a specific registration limited to the education event.

New ! See the detailed programme, here enclosed, and plan your participation to the scientific sessions and to the discussion around the Flagship Strategic Research agenda

Schedule: Abstract submission closing on **Jan. 25th (extended deadline, for posters only)**
on **Feb. 11th, specifically for the Education Workshop**

Useful information:



Registration cost: 350 € VAT excl. (420 € VAT incl.) Registration is opened from Dec. 4th, 2018.

Registration includes full access to the plenary and parallel policy and scientific sessions, the five lunches from Monday to Friday, welcome buffet on Sunday evening, and wine and cheese event on Thursday evening. Optional Gala Dinner (60 € VAT excl., 72 € VAT incl.) will be on Tuesday evening at Grenoble World Trade Centre, at a walking distance from the conference place.

The number of participants to the conference is limited to 600. Registrations will be processed in chronological order, authors should take care to register early enough to secure their registration.

New : join the education workshop, embedded within EQTC 2019 on Tuesday and Wednesday.

Participation is included in the normal EQTC registration (with specific notification, see later) or, can be secured through a specific registration limited to the event (120 € VAT incl.)



Venue:

To reach **Maison Minatec** ([more details here](#)): Maison Minatec is in front of the tram B (green line) stop 'Cité Internationale', directly connected (5 mn) to the main Grenoble railway station and central bus station, and to Grenoble downtown (10-15 mn).

Adress: 3 Parvis Louis Néel, 38000 Grenoble. **GPS coord.:** Latitude : 45,1958072 – Longitude : 5,7096947

To reach **Grenoble by plane** : closest airports are [Lyon St Exupery airport](#) (one hour drive by bus, bus running every 30 or 60 minutes depending on time, different companies) , [Grenoble-Alpes airport](#) (45 minutes drive by bus, Actibus company, few buses per day Sunday-Friday and several on Saturday) or [Geneva airport](#) (2.5 hours by bus, a few buses a day by Aerocar company, or various train connections with SNCF).

To reach **Grenoble by train**, get off at 'Grenoble Gare' (Station). Grenoble is connected to Paris (Gare de Lyon station) by direct TGV line (approx. three hours, several trains per day).

For suggestions of accomodation in Grenoble, and tourism informations: [Grenoble tourist office web page](#).

Invited speakers to the scientific plenary sessions

Thierry Debuisschert (Thales, France)

Philippe Duluc (Atos, France)

Ross Duncan (Computer and Information Sciences, University of Strathclyde - Cambridge Quantum Computing Limited)

Markus Greiner (Department of Physics, University of Harvard)

Ronald Hanson (QuTech, Delft)

Anthony Laing (School of Physics, University of Bristol)

Thomas Monz (Institute for Experimental Physics, University of Innsbruck)

Mikko Möttönen (Aalto University)

Heike Riel (IBM Zurich)

Fabio Sciarrino (Dipartimento di Fisica, Sapienza University of Rome)

Leticia Tarruell (ICFO, Barcelona)

Maud Vinet (CEA-Leti, Grenoble)

Andreas Walraff (Quantum Device Lab, ETH Zurich)

Eva Weig (NanoMechanics Group, University of Konstanz)

Ronald de Wolf (CWI, Univ. of Amsterdam)

Hugo Zbinden (Quantum Technologies Group, University of Geneva)

Qiang Zhang (University of Science and Technology of China)

Programme

Sunday, Feb. 17th:

18:30 - 21:00 : welcome buffet, at Maison Minatec
advance collecting of conference badges

Monday, Feb. 18th :

08:00 : **Welcome coffee, registration**

09:00 - 11:00 : **The European Quantum Flagship** : presentation and discussion with the audience.
With Gustav Kalbe (European Commission) – Jürgen Mlynek (chair of the Strategic Advisory Board) - Tommaso Calarco (FCO¹, chair of the Quantum Community Network, FZ Jülich) and Markus Wilkens (FCO, VDI)

11:00 - 11:30 : **Coffee break**

11:30 – 13:00 : Plenary - **invited talks** : Ross Duncan, Ronald Hanson, Thomas Monz

13:00 – 14:45 : **Lunch break (buffet) – exhibition booths and posters** (1st round)

14:45 – 16:30 : Plenary - **the Flagship Governance**
Overview by Thomas Strohm (FCO, Robert Bosch GmbH), followed by presentations and discussion with the audience for the

- Strategic Advisory Board (SAB), chaired by Jürgen Mlynek
- Scientific and Engineering Board (SEB), chaired by Thierry Debuisschert (Thales)
- Quantum Community Network (QCN), chaired by Tommaso Calarco (FZ Julich)

16:30-18:30 : **Beer event – exhibition booths and posters** (1st round)

Tuesday, Feb. 19th :

08:45 – 10:15 : Plenary - **invited talks** : Qiang Zhang, Philippe Duluc, Leticia Tarruell

10:15 – 10:45 : **Coffee break**

10:45 – 12:15 : Plenary – **the Flagship Working Groups, presentations and short reports**
Innovation Working Group (WG), Strategic Research Agenda (SRA), WG, Education and training WG, Gender WG
[in-depth discussion of the SRA for each Flagship pillar, and of the Innovation strategy and challenges in specific sessions on Tuesday afternoon, Wednesday and Thursday]

12:15 – 14:00 : **Lunch break (buffet) – exhibition booths and posters** (1st round)

14:00 – 15:45 : Parallel – **Oral presentations**
BSCC² (Platine) **Computing** (Auditorium) **Simulation** (upper room)

15:45 – 16:15 : **Coffee Break**

¹ The Flagship Coordination Office associates the members of the current and future Coordination and Support Actions of the Flagship: Quantum Support Action (QSA), Quantum Technology Flagship Coordination and Support Action (QFLAG).

² Basic Science and Cross Cutting topics.

- 16:15 – 17:10 : Parallel - **Presentation of the SRA and discussion with the audience**
Communication (room : Platine) **Computing** (room : Auditorium)
- 17:15 – 18:10 : Parallel - **Presentation of the SRA and discussion with the audience**
Simulation (room : Platine) **Sensing and metrology** (room : Auditorium)
- 20:00 :** **Gala dinner (Grenoble World Trade Centre)³**

Wednesday, Feb. 20th :

- 08:45 – 10:45 : Plenary - **invited talks** : Mikko Möttönen, Eva Weig, Heike Riel, Ronald de Wolf
- 10:15 – 10:45 : **Coffee break**
- 10:45 – 12:15 : Parallel : **report and discussion with the audience for**
Innovation Working Group **Education and Training Working Group**
(Platine) (Auditorium)
- 12:15 – 14:00 : **Lunch break (buffet) – exhibition booths and posters** (2nd round)
- 14:00 – 16:00 : **Parallel – Oral presentations**
BSCC⁴ (Platine) **Communication** (Auditorium) **Computing** (upper room)
- 16:00 – 18:00 : **Beer event – exhibition booths and posters** (2nd round)

Thursday, Feb. 21th :

- 08:45 – 10:15 : **Parallel – Oral presentations**
Simulation (Platine) **Communication** (Auditorium) **Sensing** (upper room)
- 10:15 – 10:45 : **Coffee break**
- 10:45 – 12:15 : **Parallel – Oral presentations**
Sensing (Platine) **BSCC** (Auditorium) **Communication** (upper room)
- 12:15 – 14:00 : **Lunch break (buffet) – exhibition booths and posters** (2nd round)
- 14:00 – 15:30 : Plenary - **invited talks** : Maud Vinet, Markus Greiner, Hugo Zbinden
- 15:30 – 16:00 : **Coffee break**
- 16:00 – 17:15 : Parallel sessions
- Standardization for quantum technologies : how to prepare your innovation for industry** (upper room)
with Andreas Jenet¹, Adam M Lewis¹, Christian Goroncy², Samira Nik³, Fabio Taucer¹, Christian Trefzger⁴, Luc Van den Berghe³ from ¹European Commission JRC, ²Deutsches Institut für Normung (DIN), ³CEN-CENELEC and ⁴European Commission DG Connect
- Applications and challenges for quantum technologies in aerospace technologies** (Auditorium)
Programme being defined

³ Take care to book the Gala dinner when registering online.

⁴ Basic Science and Cross Cutting topics

17:20 – 18:35 : Parallel sessions
Strategic Research Agenda for Basic Science and Cross Cutting topics (Platine)
report and discussion with the audience
International cooperation for quantum technologies (Auditorium)
Chaired by Philippe Chomaz (FCO, CEA)

18:45 – 21:00 : **Wine and cheese event (dinner)** ⁵
Sponsored by [BlueFors Cryogenics](#)

Friday, Feb. 22nd :

08:45 – 10:30 : **Parallel – Oral presentations**
BSCC (Platine) **Computing** (Auditorium) **Sensing** (upper room)

10:30 – 11:00 : Coffee break

11:00 – 13:00 : Plenary - **invited talks** : Anthony Laing, Fabio Sciarrino, Andreas Walraff, Thierry Debuisschert

13:00 – 13:30 : Next events of the Quantum Flagship, farewell

13:30 – 15:00 : Lunch (take-away or on site)

⁵ Opened to all participants registered to EQTC.

Education and training in quantum technologies workshop

Embedded within the conference, this specific event focuses on the education and training issues associated with the quantum technologies.

Specific registration, giving access to the full **Education and training on quantum technologies workshop** is opened on the website (120 € VAT incl.) of the registration site.

Participants registered to the full EQTC conference and willing to attend (at no additional cost) the specific **education and training workshop** on Tuesday and Wednesday should contact eqtc19@sciencesconf.org to be registered to the **Education workshop**.

Abstract submission deadline in EQTC-Education Section: February 11th, 2019

Programme :

Tuesday, Feb. 19th	
10:45 – 12:15	Plenary EQTC : Innovation WG, strategic research agenda WW, education and training WG , gender WG
12:15 – 14:00	Lunch (buffet)
14:00 – 16:00	1st education session, Chrome 2
16:00 – 17:30	Coffee break, posters
17:30-18:30	2nd education session, Chrome 2
Wednesday, Feb. 20th	
8:45 - 10:45	3rd education session, Chrome 2
10:45 – 11:15	Coffee break
11:15 – 12:30	4th education session, Chrome 2
12:30-14:15	Lunch (buffet)
14:15	End of the Education and Training Workshop

Organizing board : Hervé Courtois, Grenoble Alpes University
Marisa Michelini, University of Udine
Oxana Mishina – chair, Trieste University and Technische Universität Braunschweig
Rainer Müller, Technische Universität Braunschweig
Frank Wilhelm-Mauch, Saarland University

Quantum Technologies with Ultra-Cold Atoms (AtomQT)

AtomQT - a COST (European Cooperation in Science and Technology) action – will held a meeting in the frame of EQTC 2019.

Contact : [Philippe Bouyer](mailto:Philippe.Bouyer@insitut-optique.fr), Insitut d'Optique Graduate School

Exhibition and sponsors

Confirmed exhibitor booths at EQTC 2019 include

BlueFors Cryogenics

Also wine and cheese dinner sponsor

BlueFors

CRYOGENICS

European Patent Office



Grenoble Quantum Engineering



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Univ. Grenoble Alpes

EQTC scientific Committee

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Andris Ambainis	Faculty of Physics and Mathematics, University of Latvia
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Almut Beige	University of Leeds
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Lieven Vandersypen	QuTech, TU Delft and TNO

EQTC organizing Committee

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Anna Minguzzi	LPMMC, CNRS & Univ. Grenoble Alpes	co-chair
Yves Samson	CEA, Grenoble	co-chair
Rob Thew	Quantum Technologies Group, University of Geneva	



EQTC 2019 is organized in the context of the European Quantum Flagship,
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a coordination action financed by the European Commission.

Find last news on the quantum Flagship at qt.eu
Find EQTC 2019 website at <https://eqtc19.sciencesconf.org/>