

AGENDA

RoNaQCI Festival

18th - 20th June 2025

Central Library - Room 2.1

POLITEHNICA Bucharest



Wednesday, June 18th

- 9:00 - 10:00 Registration
- 10:00 - 10:35 Opening
 - Rector **Mihnea-Cosmin Costoiu** (POLITEHNICA Bucharest)
 - Rector **Gabriel Raicu** (Maritime University of Constanța)
 - Vicerector **Horia Necula** (POLITEHNICA Bucharest)
 - Vicerector **Ciprian Dobre** (POLITEHNICA Bucharest)
 - Vicerector **Simona Caraiman** (Technical University Gheorghe Asachi Iași)
 - Dean **Marius Marcu** (Polytechnic University of Timișoara)
 - Dean **Cosmin Bonchiș** (West University of Timișoara)
 - Dean **Ion Bica** (Military Technical Academy "Ferdinand I")
 - Dean **Mihnea Moisescu** (POLITEHNICA Bucharest)
 - Dean **Mihnea Udrea** (POLITEHNICA Bucharest)
 - Dean **Ilona Costea** (POLITEHNICA Bucharest)
 - Vicedean **Marius Marian** (University of Craiova)
 - Director **Vasile Manta** (Technical University Gheorghe Asachi Iași)
 - Director **Sorin Tașcu** (Alexandru Ioan Cuza University of Iași)
 - Director **Gabriel Pavel** (Fsas Technologies - a Fujitsu Company)
 - Director **George Gugulea** (CertSIGN)
 - Director **Pejman Panahi** (ID Quantique)
 - CFO **Fănel Enache** (IBM Romania)
 - CEO **Cristian Herghelegiu** (Dendrio)
- 10:35 - 10:45 Ro Government
 - Ministry of Education and Research State Secretary **Prof. Tudor Prisecaru**
- 10:45 - 11:15 RoNaQCI - **Prof. Mihai Carabaș & Prof. Pantelimon George Popescu** (POLITEHNICA Bucharest)
- 11:15 - 11:30 *Future of Quantum Computing*, **Dr. Daniel Mitroi** Quantum Ambassador (IBM)
- 11:30 - 11:50 Coffee Break & Poster presentation
- 11:50 - 12:20 Main Keynote - **Dr. George T. Kanellos** (National and Kapodistrian University of Athens) - *Towards Large Scale Quantum Communications Networks*
- 12:20 - 12:35 Spotlight Keynote - **Ciprian Jichici** - *Entangled Things*
- 12:35 - 13:00 QKD Full Software Stack and KMS Blueprint - **Dr. Alin Popa** (POLITEHNICA Bucharest)
- 13:00 - 14:30 Lunch Break (on-site)
- 14:30 - 15:30 Research Session #1 - Chaired by **Dr. Piotr Rydlichowski** (Poznań Supercomputing and Networking Center)
 - *Quantum Weight Optimization for Neural Networks Using Grover's Algorithm* - Prof. Mihai Udrescu (Universitatea Politehnica Timișoara)
 - *Quantum, Post-Quantum and Side-Channels* - Prof. Marios Choudary (POLITEHNICA Bucharest)

- *Entanglement of the Rings* - Bogdan Ciobanu (POLITEHNICA Bucharest)
- *Mind the Gap between Quantum Computing Advancements and Practical Post-Quantum Cryptography* - Dr. Diana Maimuț (Advanced Technologies Institute)
- *Quantum Research at TUIași* - Prof. Vasile Manta (TUIași)
- 15:30 - 16:00 10 Years of Quantum in POLITEHNICA Bucharest - **Prof. Pantelimon George Popescu** (POLITEHNICA Bucharest)
- 16:00 - 16:20 Coffee Break
- 16:20 - 16:40 RoNaQCI QKD Network Technical Aspects - **Prof. Mihai Carabaș** (POLITEHNICA Bucharest)
- 16:40 - 17:40 Nat QCIs Session - Chaired by **Keith Elder** Programme Director (Deutsche Telekom):
 - **PionierQ** - Dr. Piotr Rydlichowski (Poland)
 - **Recent Developments of the HellasQCI Project** - Dr. George T. Kanellos (Greece)
 - **Slovak Quantum Communication Infrastructure** - Dr. Djeylan Aktas (Slovakia)
 - **HungaryQCI** - Dr. Zsolt Kis (Hungary)
- 17:40 - 18:00 Sponsors: IBM (Daniel Mitroi, Quantum Ambassador; Fănel Enache, CFO IBM Romania), Fsas Technologies - a Fujitsu company (Gabriel Pavel, Regional Director Balkans, Hungary, Czech & Slovakia), Dendrio (Cristian Herghelegiu, CEO), ID Quantique (Pejman Panahi, Director of Business Development), Amazon (Alin Popa, Senior Applied Scientist ML/CV), Equal1 (Vali Mureșan, Manager of R&D Center)



- 18:00 - 20:00 Welcome Cocktail & Supper (on-site)

Thursday, June 19th

- 9:00 - 10:00 Registration
- 10:00 - 10:15 European Officials - **Dr. Laurent Olislager** (European Commission, DG CNECT)
- 10:15 - 10:50 Large Quantum Projects Session
 - **PETRUS** - Keith Elder (Deutsche Telekom)
 - **NOSTRADAMUS** - Keith Elder (Deutsche Telekom)
 - **CERN QTI**
 - **Open Quantum Institute**
- 10:50 - 11:25 50 Years Anniversary of First Microprocessor Computer in RO - **Prof. Nicolae Țăpuș** (POLITEHNICA Bucharest)
- 11:25 - 11:40 Spotlight Keynote - **Dr. Sorin Tașcu** (RAMTECH) - *Integrated Optics @ RAMTECH*
- 11:40 - 12:00 Coffee Break & Poster presentation
- 12:00 - 12:30 Main Keynote - **Dr. Djeylan Aktas** (Research Center for Quantum Information) - *Entanglement & the second quantum revolution*
- 12:30 - 12:45 *Transition to a Quantum-Safe environment*, **Pejman Panahi** Director of Business Development (ID Quantique)

- 12:45 - 13:00 *The Quantum Leap: Fujitsu's Vision for a Smarter Future*, **Gabriel Pavel** Regional Director Balkans, Hungary, Czech & Slovakia (Fsas Technologies - a Fujitsu company)
- 13:00 - 14:30 Lunch Break (on-site)
- 14:30 - 15:30 Research Session #2 - Chaired by **Gabriel Pavel** Regional Director Balkans, Hungary, Czech & Slovakia (Fsas Technologies - a Fujitsu company)
 - *Integrated optics on PPLN for Quantum Communication* - Dr. Sorin Taşcu (RAMTECH)
 - *Fiber Optic QKD System* - Dr. Zsolt Kis (Wigner Research Center for Physics)
 - *The use of the output states generated by the cloning of entanglement in quantum teleportation* - Prof. Iulia Ghiu (University of Bucharest)
 - *Computational Materials for Fault-Tolerant Superconducting Quantum Computing* - Dr. Luiza Buimaga-Iarinca (INCDTIM)
 - *Quantum Leaps and Dreams* - Dr. Aurelian Isar (IFIN-HH)
- 15:30 - 16:10 QKD Monitoring and Solutions - **RoNaQCI**
- 16:10 - 16:40 Coffee Break
- 16:40 - 17:20 RoNaQCI Quantum Panel - Chaired by **Catherine Simondi**, VP Marketing & Communications (ID Quantique): Mihai Udrescu (UPT), Cosmin Bonchiş (UVT), Alin Popa (POLITEHNICA Bucharest), Tudor Palade (UTCN), Diana Maimuţ (ITA), Aurelian Isar (IFIN-HH), Liviu Zârbo (ITIM), Vasile Manta (TUIasi), Sorin Taşcu (RAMTECH), Iulia Ghiu (UB)
- 17:20 - 18:00 Romanian In-House QKD Student Project (site visit - PRECIS PR208) - **Eng. Irina Bradu** (POLITEHNICA Bucharest)

Friday, June 20th

- 9:45 - 12:15 RoNaQCI Plenary (private) / Short Visit Bucharest City Center
- 12:15 - 12:45 First Romanian MSc in Quantum Computing Awards - Chaired by **Cerasela Băiculescu**, CEO (IBM)
- 12:45 - 13:00 Spotlight Keynote - **Prof. Florin Pop** (POLITEHNICA Bucharest)
- 13:00 - 14:30 Lunch Break (on-site)
- 14:30 - 15:30 Hackathon Final Presentations - Chaired by **Vali Mureşan**, Manager of R&D Center (Equal1)
- 15:30 - 15:55 Foundation of QKD Software - **Quantum Team @ POLITEHNICA Bucharest**
- 15:55 - 16:15 Coffee Break
- 16:15 - 16:45 Hackathon Awards - Chaired by **Gabriel Pavel**, Regional Director Balkans, Hungary, Czech & Slovakia (Fsas Technologies - a Fujitsu company) and by **Marius Olteanu**, Chief Marketing Officer (Dendrio)
- 16:45 - 17:00 Closing

