



**QUANTUM-ENHANCED CYBERSECURITY – A Practical Introduction to
Quantum Cryptography for Data Protection in the Digital Era
Romanian National Quantum Communication Infrastructure
RoNaQCI Workshop, 16-18 September 2024, Constanta**

16 September CMU – Nautical Base

- 9:00 – 10:00 Registration on site
10:00 – 10:30 **Opening Remarks:**
Gabriel RAICU – Rector of Constanta Maritime University
Gabriel BALAN – Head of Information, Technology and Communications Service, Romanian Naval Authority
Claudiu Ortensie FILIP - Director General, National Institute for Research and Development of Isotopic and Molecular Technologies, INCDTIM Cluj-Napoca
Mihai CARABAS – Project Director, RoNaQCI, POLITEHNICA Bucharest
- 10:30 – 12:30 Lesson 1 – **Basic Quantum Knowledge**
12:30 – 14:00 Lunch break & *Posters Session*
Press Statements
Visit of CMU Nautical Base
- 14:00 – 16:00 Lesson 2 – **Quantum Key Distribution for Top Secret Data Transmission**

17 September CMU – Nautical Base

- 9:00 – 10:00 Registration on site
10:00 – 10:30 **Panel: Why Quantum Communications?**
Moderator: **George Pantelimon POPESCU** – Technical Director, RoNaQCI, POLITEHNICA Bucharest
Jerzy SYPEK - Training Manager - ESDC Cyber ETEE Configuration & E-Learning Management
Emilian STERE – Managing Director CMA CGM Romania
Gabriel RAICU – Rector of Constanta Maritime University
Ionut Daniel BARBU – Security Director Adobe
Luiza BUIMAGA-IARINCA - INCDTIM Cluj-Napoca
Mihai UDRESCU – Politehnica University Timisoara
Mircea ZUS – Constanta Maritime University
- 10:30 – 12:30 Lesson 3 – **Python Programming towards QKD implementations**
12:30 – 14:00 Lunch break & *Posters Session*
14:00 – 16:00 Lesson 4 – **Interacting with a QKD Device**

18 September CMU – Nautical Base

- 9:00 – 10:00 Registration on site
10:00 – 10:30 Sorin SINTEA - **Quantum Ready VPN Network**
10:30 – 12:30 Lesson 5 – **Usage and Integration of QKD Services**
12:30 – 14:00 Lunch break & *Closing*

