



Program

Monday 24 September 2018 @Plaza

- 08:30-09:30 **Conference Registration**
- 09:30-10:00 **Welcome Addresses**
Mr. Vassilis Maglaras
Prof. Dr. Udo Helmbrecht, Executive Director of ENISA
Prof. Nektarios Tavernarakis, President of FORTH
- 10:00-10:45 **Cyber Security From regulations/policies to practice**
Dr. Leandros Maglaras Head of the National Cyber Security Authority of Greece
- 10:45-11:30 **Understanding cybersecurity innovation-Real life examples of the process, the challenges and the way to make it work**
Ilias Chantzoz, Symantec
- 11:30-12:00 **Coffee Break**
- 12:00-13:00 **Policy Panel**
Moderator: Aidan Ryan
Panelists: Ilias Chantzoz, Dr Leandros Maglaras, Professor Edgar Weippl
- 13:00-14:30 **Lunch Break**
- 14:30-15:15 **Bridging 1st PQC-functions and principles with the smart card world**
Thomas Poepplmann
- 15:15-16:00 **Lawful interception and the never-ending crypto wars**
Prof. Bart Preneel
- 16:00-16:30 **Coffee Break**
- 16:30-17:15 **Smart Attacks require Smart Defence**
Professor Gabi Dreo
- 17:15-18:00 **Distributed Ledger Technology, Blockchain & Crypto Currencies-Hype & an Opportunity for Interdisciplinary Research**
Prof. Edgar R. Weippl

Tuesday, 25 September 2018 @Plaza

- 09:00-10:00 **Rapid innovation harms the Internet of Things**
Damien Cauquil
- 10:00-11:00 **An overview of the standards landscape related to IoT security**
Vangelis Gazis
- 11:00-11:30 **Coffee Break**
- 11:30-12:30 **Behind the scenes at Shadow server: Monitoring the Darker Side**
Piotr Kijewski and David Watson
- 12:30-13:30 **Keynote Lecture in the area of Cyber Threat Intelligence**
Angelos Keromytis
- 13:30-15:00 **Lunch Break**
- 15:00-17:00 **Demonstrators**

[20:30-] Short presentation from the demonstrators participating in the Summer School
Social Dinner, @ Parasties

Wednesday, 26 September 2018

Internet of Things Security Course @Phaedra

- 09:00-11:00 **Introduction to the IoT Ecosystem: Terms, Definitions, Components**
Apostolos Malatras, Christina Skouloudi, ENISA
- 11:00-11:30 **Coffee Break**
- 11:30-12:30 **Introduction to IoT Security and typical IoT attacks**
Apostolos Malatras, Christina Skouloudi, ENISA
- 12:30-14:00 **Lunch Break**
- 14:00-15:15 **Lab exercise on BLE attacks**
Damien Cauquil, Digital Security
- 15:15-15:45 **Coffee Break**
- 15:45-18:00 **Lab exercise on BLE attacks**
Damien Cauquil, Digital Security

Incident Handling Course @Park

- 09:00-11:00 **Incident Handling overview: Basis of Incident handling**
Adrian Belmonte
- 11:00-11:30 **Coffee Break**
- 11:30-12:30 **Incident Handling overview: Basis of Incident handling**
Adrian Belmonte
- 12:30-14:00 **Lunch Break**
- 14:00-15:15 **Incident classification, analysis and resolution**
Cosmin Ciobanu
- 15:15-15:45 **Coffee Break**
- 15:45-18:00 **Incident classification, analysis and resolution**
Cosmin Ciobanu

Cyber Threat Intelligence Course @Hermes

- 09:00-11:00 **CTI overview: Terms, Definitions, Available Models**
Professor Christian Doerr, TU Delft
- 11:00-11:30 **Coffee Break**
- 11:30-12:30 **CTI overview: Terms, Definitions, Available Models**
Professor Christian Doerr, TU Delft
- 12:30-14:00 **Lunch Break**
- 14:00-15:15 **CTI Capability Maturity Model**
Marco Barros Lourenco
- 15:15-15:45 **Coffee Break**
- 15:45-18:00 **Deriving CTI from available data**
Piotr Kijewski, Shadowserver

Introduction to Post-Quantum Cryptography @Plaza

- 09:00-09:10 **Introduction to Post Quantum Cryptography track at ENISA summer school**
Rodica Tirtea ENISA
- 09:10-11:00 **Cryptology, cryptography, cryptanalysis. Definitions, meanings, requirements, and current challenges**
Prof. Tanja Lange
- 11:00-11:30 **Coffee Break**
- 11:30-12:30 **Policies in the Quantum era**

Prof. Nineta Polemi

12:30-14:00 **Lunch Break**

14:00-14:30 **EU investment in quantum computing**

Kalbe Gustav

14:30-15:15 **What do quantum computers do?**

Daniel J. Bernstein

15:15-15:45 **Coffee Break**

15:45-17:00 **Introduction to Post Quantum cryptography. Standardisation status**

Michael Groves

17:00-18:00 **Challenges and opportunities. Business cases for Quantum key distribution**
Prof. Bart Preneel

Thursday, 27 September 2018

Internet of Things Security Course @Phaedra

09:00-11:00 **Assessment of IoT security frameworks**

Apostolos Malatras, Christina Skouloudi, ENISA

11:00-11:30 **Coffee Break**

11:30-12:30 **Assessment of IoT security frameworks**

Apostolos Malatras, Christina Skouloudi, ENISA

12:30-14:00 **Lunch Break**

14:00-15:15 **Lab exercise on assessment and implementation of IoT security frameworks**

Hannes Tschofenig, ARM Ltd.

15:15-15:45 **Coffee Break**

15:45-18:00 **Lab exercise on assessment and implementation of IoT security frameworks**

Hannes Tschofenig, ARM Ltd.

Incident Handling Course @Park

09:00-11:00 **Incident handling and basic artifact analysis**

Adrian Belmote

11:00-11:30 **Coffee Break**

11:30-12:30 **Incident handling and basic artifact analysis**

Adrian Belmote

12:30-14:00 **Lunch Break**

14:00-15:15 **Practice triage and incident handling processes**

Cosmin Ciobanu

15:15-15:45 **Coffee Break**

15:45-18:00 **Practice triage and incident handling processes**

Cosmin Ciobanu

Cyber Threat Intelligence Course @Hermes

09:00-11:00 **CTI: good practices and tools**

Andreas Sfakianakis, Independent CTI expert

11:00-11:30 **Coffee Break**

11:30-12:30 **CTI: good practices and tools**

Andreas Sfakianakis, Independent CTI expert

12:30-14:00 **Lunch Break**

14:00-15:15 **Operational and tactical CTI: good practices and tools**

Stavros Lingris, CERT EU

15:15-15:45 **Coffee Break**

15:45-18:00 **Operational and tactical CTI: good practices and tools**

Stavros Lingris, CERT EU

Introduction to Post-Quantum Cryptography @Plaza

09:00-10:00 **Lattice based post quantum cryptography**

Vadim Lyubashevsky IBM

10:00-11:00 **Practical implementation of lattice-based cryptography**

Prof Maire O'Neill Queen's University of Belfast

11:00-11:30 **Coffee Break**

11:30-12:30 **Case study on PQ identity-based cryptography**

Michael Groves

12:30-14:00 **Lunch Break**

14:00-14:45 **Hash-based Signatures**

Stefan-Lukas Gazdag genua GmbH

14:45-15:15 **Code-based Cryptography (I)**

Daniel Loebenberger genua GmbH

15:15-15:45 **Coffee Break**

15:45-16:00 **Code-based Cryptography (II)**

Daniel Loebenberger genua GmbH

16:00-17:00 **Protocol integration and implementation problems**

Stefan-Lukas Gazdag genua GmbH

17:00-18:00 **The libqcrypto software library for post-quantum cryptography**

Daniel J. Bernstein

Friday, 28 September 2018 @Plaza

09:00-11:30 **Plenary of all trainings**

11:30-12:30 **Closing Session**

12:30-14:00 **Lunch Break**

16:45-19:30 **End of Event**

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