



## **Program Cyber Alp Retreat: Cyber Security Track**

### **Tuesday, June 29**

17:30      [Reception and Dinner](#)

### **Wednesday, June 30**

8:45      [Introduction](#)  
Dr. Vincent Lenders, armasuisse

#### Session 1: System Security

9:00      [Attacks and Defenses on FPGA-CPU-GPU Heterogeneous systems](#)  
Dina Mahmoud, EPFL

9:30      [Secure Mobile Operating System Architecture](#)  
Ueli Ehrbar, Noser Engineering

10:00     [Security of Electrical Cars and Charging Infrastructures](#)  
Dr. Richard Baker, University of Oxford

10:30     Coffee break

#### Session 2: Cyber Threat Intelligence Sharing

11:00     [How Defenders Build an Edge Through Collaborative Cybersecurity using MISP Data](#)

Sébastien Gillard, Militärakademie an der ETH Zürich

11:30     [Secure Distributed-Learning on Threat Intelligence](#)

Romain Bouyé, EPFL

12:00     Lunch

14:00     Social event: Joint walking tour in the mountains or alternative if raining

19:00     Dinner

## Thursday, July 1

9:00            [Keynote: Fuzzing for vulnerabilities: how safe are you?](#)  
Prof. Dr. Mathias Payer, EPFL

### Session 3: Vulnerability Research

10:00            [Challenges in Automating Kernel Exploitation](#)  
Dr. Anil Kurmus, IBM Research

10:30            [Recovering Type Information from Compiled Binaries to Aid in Instrumentation](#)  
Louis Merlin, EPFL

11:00            Break

### Session 4: Automated Security Operations

11:30            [Towards an AI-powered Player in Cyber Defence Exercises](#)  
Roland Meier, ETH Zurich

12:00            [Automated Cyber Defense and Response](#)  
Dr. Andreas Wespi, IBM Research

12:30            Lunch

### Session 5: Network Security

14:00            [DDoS-Aid: Automated In-Network DDoS Mitigation as a First Line of Defense](#)  
Albert Gran Alcoz, ETH Zurich

14:30            [Global Router Detection & Evasion through SCION](#)  
Cyrill Krähenbühl, ETH Zurich

15:00            Break

### Session 6: Crypto

15:30            [Post quantum cryptography – Code based Cryptography](#)  
Niklas Gassner, University of Zurich

16:00            [Post quantum cryptography – Multivariate cryptography](#)  
Giulia Gaggero, University of Neuchâtel

16:30            End of security track