Programme

Moderation
Andreas Hirstein, NZZ am Sonntag,
Ressortleiter Wissen

14.00 **Welcome**
Lino Guzzella, President of ETH Zurich
Pushing the Boundaries of Security Research
Srdjan Capkun, Professor and Director of
the Zurich Information Security and Privacy
Center (ZISC), ETH Zurich
Quantum Cryptography
Renato Renner, Professor for Theoretical
Physics and head of the research group
for Quantum Information Theory, ETH Zurich
Industry Collaboration with ZISC
Martin Bosshardt, CEO of Open Systems AG

15.00 **Break**

15.30 **Panel Discussion**
What Keeps You Awake at Night?
Co-moderator: Matthias Bossardt, Head of
Cyber Security, KPMG Switzerland
- Tarek Amiri, IT Security Officer, Swisscom
- Robert Bornträger, CEO of Global IT, SIX
- Marc Henauer, Head of OIC MELANI
- Markus Naef, CEO of SwissSign AG

16.15 **Break**

16.30 **Start-up Pitches**
- Claudio Marforio and Sandra Tobler,
  Co-founders of Futurae Technologies AG
- Antonio Barresi, Co-founder of xorlab

17.00 **Reception**

Contact

ETH Zürich
ETH Global
Rämistrasse 101
8092 Zurich

www.global.ethz.ch

ETH zürich

Security Technologies Enabling the Future - From Blockchains to IoT

Friday, 15 September 2017

14.00 - 17.00 h
Klubsaal, Kaufleuten Zürich

Presented by ETH Zurich in partnership with the Digital Festival Zurich

New information technologies emerge at rapid pace and innovations in the area of ICT have significant impacts on our social, political and economic lives. The ongoing and expected changes offer great opportunities to societies and economies, but they also bear risks. To counter risks, a thorough understanding of the theoretical foundations of information security as well as practical security threats and countermeasures are needed.

This session aims to provide insights and a comprehensive overview to the newest trends, useful use cases and research in the field of Security Technologies.

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Biographies

Andreas Hirstein is a Science reporter at "NZZ am Sonntag" in Zurich where he leads the Science and Technology desk. He studied Physics at the University of Bonn and the Swiss Federal Institute of Technology in Lausanne (EPFL) from which he holds a PhD in Solid State Physics. He worked as an editor for the Swiss Electrotechnical Association (Electrosuisse) and the "Tages-Anzeiger" in Zurich before joining NZZ in 2002.

Lino Guzzella has been President of ETH Zurich since January 2015 and full professor of thermotronics since 1999. From mid-2012 until the end of 2014, he served as Rector of ETH Zurich. Prof. Guzzella studied mechanical engineering at ETH Zurich, where he earned his doctoral degree in 1986. Prior to pursuing an academic career, he held several positions in industry, working in R&D with Sulzer as well as with the Hilti Corporation. He was appointed assistant professor by ETH Zurich in 1993. From 2003 to 2004, he held the position of Honda Visiting Professor at the Ohio State University.

Srdjan Capkun is a full professor at the Department of Computer Science, ETH Zurich and director of the Zurich Information Security and Privacy Center (ZISC). He received his Dipl.Ing. degree in electrical engineering / computer science from the University of Split, Croatia, in 1998, and his PhD in communication systems from EPFL in 2004. Prior to joining ETH Zurich in 2006 he was a postdoctoral researcher in the Networked & Embedded Systems Laboratory (NESL) at the University of California Los Angeles and an assistant professor in the Informatics and Mathematical Modeling Department at the Technical University of Denmark (DTU).

Renato Renner is professor for Theoretical Physics and head of the research group Quantum Information Theory at ETH Zurich. He studied physics, first at EPFL and later at ETH Zurich, where he graduated in theoretical physics. He then moved to the Computer Science Department to work on a thesis in the area of quantum cryptography. After earning his PhD, he spent two years in the UK, where he was a Hewlett Packard research fellow in the Department for Applied Mathematics and Theoretical Physics at the University of Cambridge. In 2007 he started as an assistant professor at ETH Zurich. He was promoted in 2012 to an associate professor and in 2015 to a full professor.

Martin Bosshardt has been CEO of Open Systems AG since 2002. Martin Bosshardt studied at ETH Zurich and the University of Tokyo. He holds a Master's degree in electrical engineering from ETH Zurich. After completing his studies, Martin Bosshardt worked as an IC lead engineer for ABB in Switzerland and abroad. In 1998 he was appointed to the management of Futurecom Interactive, the leading consultant company for digital communication.

Matthias Bosshardt is Head of Cyber Security at KPMG Switzerland. He is also a member of KPMG's Global Cyber Security Leadership as well as KPMG Switzerland's Digital Board. In October 2016 Matthias Bosshardt was voted one of Switzerland's 100 most influential "Digital Shapers" by Bilanz, a leading Swiss business publication. Prior to joining KPMG, Matthias Bosshardt conducted research on communications systems and cyber security at ETH Zurich and as a research scholar at the Beckman Institute of Advanced Studies of University of Illinois.

Tarek Amiri is the Information Security Officer at Swisscom Group Security. In this position, he is responsible for the secure design and implementation of various projects, services and products for Swisscom as well as for its customers.

Robert Bornträger has been CEO of the division Global IT at SIX since 2014. From 2008 until 2014 he has been responsible for the development and operation of the entire IT infrastructure. From 2005 until 2007, he was CEO of Telekurs Services Ltd. and a member of the management committee of the Telekurs Group. Prior to this, he was Managing Director of Integralis Schweiz AG and subsequently Chief Information Officer at Swiss International Air Lines.

Marc Henauer is Head of the MELANI Operation and Information Centre. This unit is part of the Federal Intelligence Service within the Swiss Ministry of Defence, Civil Protection and Sports. Marc Henauer was the strategic analyst for economic and cyber criminality within the Service of Analysis and Prevention, before heading MELANI and part of the Cybercrime Coordination Unit (CYCO). He studied economic science at the University of Zurich and media and communication management at the University of St. Gallen. Marc Henauer got his Master of Arts in Security Studies from the Georgetown University in Washington DC.

Markus Naef is CEO of SwissSign. He has over 20 years' experience in general management and business development, and has held various leadership positions in international companies in the areas of digitalisation and the transformation of digital business models in the B2C and B2B sectors. Markus Naef studied economics and law at the University of St. Gallen.

Claudio Marforio is a co-founder and COO of Futurae Technologies AG, where he focuses on business and technology development. With a strong fascination for computers and security shown early on, he studied Computer Science and holds a PhD from ETH Zurich, where he focused his research on mobile and web security. He co-founded Futurae Technologies AG with the goal of helping everyone to be secure online through the use of cyber security solutions improving the customer experience.

Sandra Tobler is a co-founder of Futurae Technologies AG, where she focuses on the business side. Sandra worked for IBM in international projects and then joined Switzerland Global Enterprise (S-GE) where she built the expertise for the IT industry. She closely worked with IT associations and multipliers to organize delegations, trade fairs and events to promote Swiss IT technology and the ecosystem abroad. In parallel, Sandra consulted companies with internationalization projects. From 2015 - 2017, Sandra worked in San Francisco for S-GE where she promoted Switzerland as a business location towards mostly tech companies of the US and helped Swiss companies into the US. Sandra is a passionate ecosystem builder bringing people together in the ecosystem.

Antonio Barresi is co-founder and CEO of xorlab, a Swiss IT security company. Before founding xorlab, he worked at the Laboratory for Software Technology (LST) at ETH Zurich on software security related topics. His research interests are software and system security. Over the last years, he has given talks at different industry and academic security conferences (e.g. 33C3, Black Hat, Hacktivity, WOOT). Before joining LST, he worked as a Software Engineer, Security Consultant and IT Risk Officer. He holds a BSc and MSc degree in Computer Science from ETH Zurich.