

## **Digital Society Conference 2017: Reliability Reloaded**

November 20-21, 2017

ESMT Berlin

Schlossplatz 1, 10178 Berlin

The problems of cybersecurity and privacy develop into a constant crisis. Attacks are getting better, impacts get more severe. All kinds of systems and all parts of societal life are being attacked. Authoritarian states abuse the Internet to control their citizens and influence their neighbors. And our traditional technical and political “solutions” fail us ever faster. If everything is vulnerable, nothing is reliable. A state we cannot tolerate.

This year’s conference will discuss how to reintroduce technical, legal, political and military reliability in an age of digital insecurities und uncertainties. The conference will bring two days of technical and political panels, presentations, and workshops, giving you many different perspectives from science, industry and governments, and including speakers from MIT, NATO, Oxford University, Harvard University Belfer Center, Tel Aviv University, the Harvard Kennedy School AI Initiative, Conservatoire National des Arts et Métiers Paris, Atlantic Council, I am the Cavalry, the German Bundestag, and many more.

Our speakers will map the shallows of our loss of control and bring novel thoughts and technologies to the discussion. Join us in our battle to reconquer security, human rights, democratic discourse as well as economic and military stability.

Topics include:

- The security of our economies
- The failing market of medical IT
- The rise of AI in defense
- Military cyberdefense Innovation
- Developing IT-security research and education
- Building cyberdefense innovation hubs
- Germany's "Digitalpolitik 2017-2021"
- Improving Public Private Partnerships

- Impregnable systems as a new paradigm in IT-security
- Building a better IT-security market
- Shaping the IT-security market through insurance
- Governments hacking back
- A vulnerability equities process for Germany
- Tactics against organized cyber crime
- Asian and East-West cyber military stability
- Frameworks for global cyber military operations
- Massive cyber psychological operations
- Cryptocurrencies
- Moving target security
- Post quantum security

## **Program**

### **Day 1, November 20, 2017**

10.00 - 11.00 REGISTRATION

*Entrance Hall*

11.00 - 12.15 OPENING SESSION

*Auditorium Maximum*

### **Welcome**

- **Prof. Jörg Rocholl, PhD, President of ESMT Berlin and EY Chair in Governance and Compliance**
- **Dr. Sandro Gaycken, Director, Digital Society Institute Berlin**

### **Keynotes**

- **Prof. Udo Helmbrecht, Executive Director, European Union Agency for Network and Information Security**
- **Dr. Thomas Fitschen, Director for the United Nations, International Cyber Policy and Counter-Terrorism, Federal Foreign Office**
- **Iris Plöger, Member of the Executive Board, BDI**
- **Marcel "Otto" Yon, CEO, Bundeswehr Cyber Innovation Hub**
- **Dr. Katrin Suder, Secretary of State, German Federal Ministry of Defense**

12.30 - 13.30 PANEL DISCUSSION & CONCURRENT SESSIONS

**PANEL: How can we build military cyber capability? (CIH Track)**

*Auditorium Maximum*

- Ulrich Meister, CEO, Bundeswehr Informationstechnik
- Prof. Dr. Gabi Dreo Rodosek, Chair for Communication Systems and Network Security, Bundeswehr University Munich
- MD Klaus Hardy Mühleck, CIO, Federal Ministry of Defense
- Bernd Stingl, The Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support
- Marcel "Otto" Yon, CEO, Bundeswehr Cyber Innovation Hub
- Moderator: Dr. Sandro Gaycken, Director, DSI

**What are new tactics against cyberterror and organized cybercrime?**

*Auditorium 1*

- Dr. Sabine Vogt, Head of Division Serious and Organized Crime, Federal Criminal Police Office
- Dr. Kenneth Geers, Ambassador NATO Cyber Center

**Do we need a vulnerabilities equities process in Germany?**

*Auditorium 2*

- Martin Schallbruch, Deputy Director, DSI
- Nils Leopold, LL.M. (Legal Informatics) Berlin

13.30 - 14.30 LUNCH

14.30 - 14.45 KEYNOTE

*Auditorium Maximum*

**Prof. David Mussington, School of Public Policy, University of Maryland**

14.45 - 15.45 PANEL DISCUSSION & CONCURRENT SESSIONS

**PANEL: Cyber innovation in the military (CIH Track)**

*Auditorium Maximum*

- Celia Pelaz, Head of Strategic Business Development, HENSOLDT

- Prof. Gernot Heiser, John Lions Chair of Operating Systems, UNSW Sydney and Data61, CSIRO
- Dr. Geir Olav Dyrkolbotn, NTNU/CCIS – Center for Cyber and Information Security
- Dr. Lydia Kostopoulos, Director of Strategic Engagement at the College of Information a Cyberspace, National Defense University in Washington
- Moderator: Prof. David Mussington, School of Public Policy, University of Maryland

### **How do other countries cooperate in cybersecurity?**

#### *Auditorium 1*

- Dr. Yoko Nitta, Senior Fellow, Japan Society for Security and Crisis Management
- Dr. Lior Tabansky, Blavatnik Interdisciplinary Cyber Research Center, Tel Aviv University

### **Organizing cyber militaries**

#### *Auditorium 2*

- Dr. Robert Koch, Center for Cyber Security of the Bundeswehr
- Prof. Chris Demchak, RADM Grace M. Hopper Chair of Cybersecurity, US Naval War College

16.00 - 16.15 KEYNOTE

#### *Auditorium Maximum*

### **Rafal Rohozinski, SecDev Group**

16.15 - 17.15 PANEL DISCUSSION & CONCURRENT SESSIONS

### **PANEL: How can our economies get reliable cyber security?**

#### *Auditorium Maximum*

- Rafal Rohozinski, SecDev Group
- Dr. Ralf Schneider, Group CIO, Allianz
- Lorenz Kuhlee, EY | Fraud Investigation & Dispute Services
- Wiebe van der Horst, BASF
- Dr. Hans-Joachim Popp, CIO, The German Aerospace Center (DLR)
- Moderator: Dr. Sandro Gaycken, Director, DSI

## **Strategic approaches to cybersecurity in Asia**

### *Auditorium 1*

- Dr. Ide Tatsuo, Commander, Japan Maritime Self Defense Force (JMSDF) and Associate Professor of the Department of National Defense Studies, National Defense Academy of Japan
- Prof. Jae Kyu Lee, Chair Professor of Yonsei University and KAIST, Korea

## **Will AI in cyberdefense work?**

### *Auditorium 2*

- Prof. Philippe Baumard, École Polytechnique Paris
- John Mallery, Computer Science & Artificial Intelligence Laboratory, Massachusetts Institute of Technology

17.15 - 17.45 COFFEE BREAK

17.45 - 18.45 PANEL DISCUSSION & CONCURRENT SESSIONS

## **PANEL: What are the conditions and limits for global cyber military operations?**

### *Auditorium Maximum*

- Ambassador Sorin Ducaru, Assistant Secretary General, NATO
- Roderich Kiesewetter, Member of the Deutscher Bundestag
- Dr. Anatoly Streltsov, Deputy Director, Institute for Information Security Issues, Lomonosov Moscow State University
- Dr. Pavel Karasev, Institute for Information Security Issues, Lomonosov Moscow State University
- Prof. Paul Cornish, Oxford Martin School, University of Oxford
- Moderator: Dr. Sandro Gaycken, Director, DSI

## **Best practices from corporate innovation management? (CIH Track)**

### *Auditorium 1*

- Jörg Rheinboldt, CEO, Axel Springer, Plug & Play
- Axel Krieger, Managing Director and Founding Partner, Digital+ Partners
- Guido Schwartz, Senior Innovation & Business Development Manager, Airbus Defense & Space
- Moderator: Marcel "Otto" Yon, CEO, Bundeswehr Cyber Innovation Hub

## **Blockchain-driven innovation**

### *Auditorium 2*

- Dr. Hadar Yoana Jabotinsky, Blavatnik Interdisciplinary Cyber Research Center, Tel Aviv University
- Christoph Burger, Lecturer, Senior Associate Dean of Executive Education, ESMT Berlin
- Prof. Michael Capone, EY | Fraud Investigation & Dispute Services
- Lorenz Kuhlee, EY | Fraud Investigation & Dispute Services

## **Day 2, November 21, 2017**

09.15 - 09.30 KEYNOTE

### *Auditorium Maximum*

**Chris O'Keefe, Partner, Future Partners; Author "Think Wrong"**

09.30 - 10.30 PANEL DISCUSSION & CONCURRENT SESSIONS

### **How dangerous are cyber Psy Ops?**

#### *Auditorium Maximum*

- Rafal Rohozinski, SecDev Group
- Frederike Kaltheuner, Policy Officer, Privacy International

### **SAP security**

#### *Auditorium 1*

- Andreas Wiegenstein, CEO and Co-Founder SERPENTEQ GmbH
- Markus Hauff, Director Innovation, Bundeswehr Informationstechnik

### **Can impregnable systems be a new paradigm in IT-security?**

#### *Auditorium 2*

- Simon Metzner, Business Development Operations Manager, HENSOLDT
- Prof. Gernot Heiser, John Lions Chair of Operating Systems, UNSW Sydney and Data61, CSIRO

10.45 - 11.45 PANEL DISCUSSION & CONCURRENT SESSIONS

## **PANEL: How do we achieve global cyber military stability?**

*Auditorium Maximum*

- John Mallery, Computer Science & Artificial Intelligence Laboratory, Massachusetts Institute of Technology
- Prof. Anatoly Smirnov, President, National Institute of Research of Global Security, Moscow
- Dr. Thomas Fitschen, Director for the United Nations, International Cyber Policy and Counter-Terrorism, Federal Foreign Office
- Moderator: Dr. Sandro Gaycken, Director, DSI

## **Startup innovation for defense with focus social media (CIH Track)**

*Auditorium 1*

- Tabea Wilke, Founder & CEO, botswatch
- Harald Bosch, Director, ScatterBlogs
- Stefan Pforte, CEO, Somtxt
- Bernd Molzahn, Founder & CSO, Ubermetrics
- Ross Frenett, Founder, Moonshot
- Moderator: Nicolas Heyer, Bundeswehr Cyber Innovation Hub

## **What is moving target security?**

*Auditorium 2*

- Jaume Ayerbe, CEO, \_cyel
- Alexander Bajic, Junior Researcher, DSI

12.00 - 12.15 KEYNOTE

*Auditorium Maximum*

**Beau Woods, Atlantic Council / I am the Cavalry**

*12.15 - 13.15 PANEL DISCUSSION & CONCURRENT SESSIONS*

## **PANEL: Cyber safety in connected health care - lessons for a 4.0 world**

*Auditorium Maximum*

- Beau Woods, Atlantic Council / I am the Cavalry
- Dr. Hans-Martin von Stockhausen, Siemens Healthineers

- Markus Bartsch, Business Development, IT-Security, TÜV Informationstechnik GmbH, Unternehmensgruppe TÜV NORD
- Dr. Leonie Tanczer, Postdoctoral Research Associate for the EPSRC-funded PETRAS Internet of Things (IoT) Research Hub
- Moderator: Isabel Skierka, Researcher, DSI

### **Paris-Berlin – Why there is no alternative to a joined defense innovation agency**

#### *Auditorium 1*

- Dr. Gundbert Scherf, Partner, McKinsey & Company
- André Loesekrug-Pietri, Former Special advisor to the French Minister of Defence & JEDI Task Force
- Moderator: Jan F. Kallmorgen, CEO, Berlin Global Advisors

### **How do we achieve effective government oversight? (in German)**

#### *Auditorium 2*

- Clemens Binninger, Chairman of Parliamentary Control Panel
- Prof. Dr. Ralf Poscher, Director, Institute for Philosophy of Law, Albert-Ludwigs-University of Freiburg

13.15 - 14.15 LUNCH

14.15 - 15.15 PANEL DISCUSSION & CONCURRENT SESSIONS

### **PANEL: Should we allow AI in defense technology?**

#### *Auditorium Maximum*

- Eleonore Pauwels, Director, The AI Lab, Science and Technology Innovation Program, The Wilson Center
- Dr. Jeff Alstott, Program Manager, IARPA
- Dr. Marcel Dickow, Head of International Security Division, German Institute for International and Security Affairs
- Moderator: Cyrus Hodes, Director, The Future Society, Harvard Kennedy School

### **Which digital architecture needs military cyber defense? (CIH Track)**

#### *Auditorium 1*

- Markus Hauff, Director Innovation, Bundeswehr Informationstechnik
- Michael Müller, IT Architecture Management, Bundeswehr Informationstechnik



## **What is post-quantum security?**

*Auditorium 2*

- Dr. Thomas Pöppelmann, Infineon Technologies AG
- Dr. Georg T. Becker, Senior Researcher, DSI

15.15 - 15.30 COFFEE BREAK

15.30 - 16.30 PANEL DISCUSSION & CONCURRENT SESSIONS

### **PANEL: What are conditions and requirements of lawful hacking?**

*Auditorium Maximum*

- Georg Mascolo, Director, Joint Investigative Group of Süddeutsche Zeitung
- Michael Hange, Former President, BSI
- Dr. Hans-Joachim Popp, CIO, The German Aerospace Center (DLR)
- Wilfried Karl, President, ZITiS, Central Office for Information Technology in the Security Domain
- Moderator: Martin Schallbruch, Deputy Director, DSI

### **Post norms development of international cybersecurity regulations**

*Auditorium 1*

- Dr. Kevin Limonier, repr. Castex chair of cyberstrategy (Institute of Advanced Studies in National Defence), associate professor, French Institute of geopolitics, Univ. Paris 8
- Dr. Pavel Karasev, Institute for Information Security Issues, Lomonosov Moscow State University

### **How to create PPP for a better IT-security market?**

*Auditorium 2*

- Dr. Gunnar E. Siebert, CEO, Deutsche Cyber-Sicherheitsorganisation GmbH (DCSO)
- Andreas Könen, Head of Directorate IT II - IT and cyber security; secure information technology and ÖS III - Cyber security, Federal Ministry of the Interior

16.45 - 17.00 CLOSING SESSION

*Auditorium Maximum*

- **Dr. Sandro Gaycken, Director, DSI**