

ICS-CSR 2013 Programme¹

Monday 16th September 2013

08:30 Registration and Coffee

09:00 Welcome and Conference Opening

09:30 **Keynote**

Dr Sally Leivesley, Newrisk

Cyberterrorism and Proxy Conflict Risk – Solutions and CNI Resilience?

Cyberterrorism is a key threat to national security. Emerging risks of layered terror attacks that comprise physical and cyber threats are discussed alongside human factor failures through the Wikileaks and Snowden security breaches and risks of social media exploitation during an attack. Added to this are new vulnerabilities in infrastructure from trends in cyber connectedness for intelligent buildings and smart cities which may present unexpected failure points under a terror attack. Blue sky research is recommended for solutions to CNI resilience through novel system of systems design for catastrophic failure, changes in human interface management and a review of whether current top critical security controls are adequate.

10:30 Coffee and Refreshments

10:50 Session 1

1. Amit Soni, Sye Loong Keoh, Sandeep Kumar and Oscar Garcia-Morchon. **HADA: Hybrid Access Decision Architecture for Building Automation and Control Systems**
2. Thomas Morris and Wei Gao. **Industrial Control System Cyber Attacks**

12:00 Lunch

13:00 **Keynote**

Dr. Jean Botti, CTO EADS

Dr. Jean Botti is the EADS Chief Technical Officer and a member of the EADS Executive Committee. Presiding over technical developments and innovations for the EADS Group (Airbus, Astrium, Cassidian, and Eurocopter) he will discuss his experience and developments in cyber security for a global leader in aerospace and defence. The protection of Industrial Control Systems / SCADA forms one part of such cyber security activities.

¹ Programme subject to change

14:00 Coffee and Refreshments

14:30 Session 2

1. Michael Robinson. **The SCADA Threat Landscape**
2. Andrew Blyth. **Role Logic and its Application to the Analysis of Process Control Systems from the Socio-Technical System Perspective**
3. Khan Ferdous Wahid, Nicolai Kuntze and Carsten Rudolph. **Trusted Virtual Machine Management for Virtualization in Critical Environments**

16:15 End of day

18:00 Shuttle Transfer from Conference Venue to Space Centre

18:30 Evening Programme.

Gala and Evening Dinner in the National Space Centre.

<http://www.spacecentre.co.uk/>

23:00 Shuttle Transfer from Space Centre to Hotels

Tuesday 17th September 2013

08:30 Coffee

09:00 Keynote

Thomas Brandstetter (Fachhochschule St. Pölten)

3 years post-Stuxnet: What changed, what didn't and what lies ahead of us

Since its official detection in 2010, Stuxnet has probably become one of best researched and most referenced malware strains in the security world, and certainly in the industrial world. For 3 years now, many presentations have started with "Everything changed with Stuxnet". Question is: Is this true? What is the impact that Stuxnet had on the industry as a whole? What changes are visible, technically and organizationally? Having been the official incident manager for Stuxnet within Siemens back then, Thomas was in the middle of its dynamics. He saw and was involved in many of the security developments and consequences happening in various industries during the post-Stuxnet years. Having also been in the industrial security world long before Stuxnet, he will give his personal view on what changed, what didn't and what lies ahead of us.

10:15 Coffee and Refreshments

10:30 Session 3

1. Andrew Nicholson, Helge Janicke and Tim Watson. **An Initial Investigation into Attribution in SCADA Systems**
2. Ivan Cibrario Bertolotti, Luca Durante, Tingting Hu and Adriano Valenzano. **A Model for the Analysis of Security Policies in Industrial Networks**

3. Robert Oates, Fran Thom and Graham Herries. Security-Aware, **Model-Based Systems Engineering with SysML**

12:15 Lunch

13:15 Session 4

1. Antoine Lemay, José M. Fernandez and Scott Knight. An isolated virtual cluster for SCADA network security research
2. Tina Wu, Jules Pagna Disso, Kevin Jones and Adrian Campos. **Towards a SCADA Forensics Architecture**
3. Position Papers:
 - a. Emmanouil Vasilomanolakis, Mathias Fischer, Max Mühlhäuser, Peter Ebinger, Panayotis Kikiras and Sebastian Schmerl. **Collaborative Intrusion Detection in Smart Energy Grids**
 - b. Lasith Yasakethu and Jianmin Jiang. **Intrusion Detection via Machine Learning for SCADA System Protection**
 - c. William Knowles, Daniel Prince, David Hutchison, Jules Ferdinand Pagna Disso and Kevin Jones. **Towards Real-Time Assessment of Industrial Control Systems (ICSs): A Framework for Future Research.**

15:00 Coffee

15:30 Podium Discussion

16:30 Closing Remarks

16:45 Conference Close