

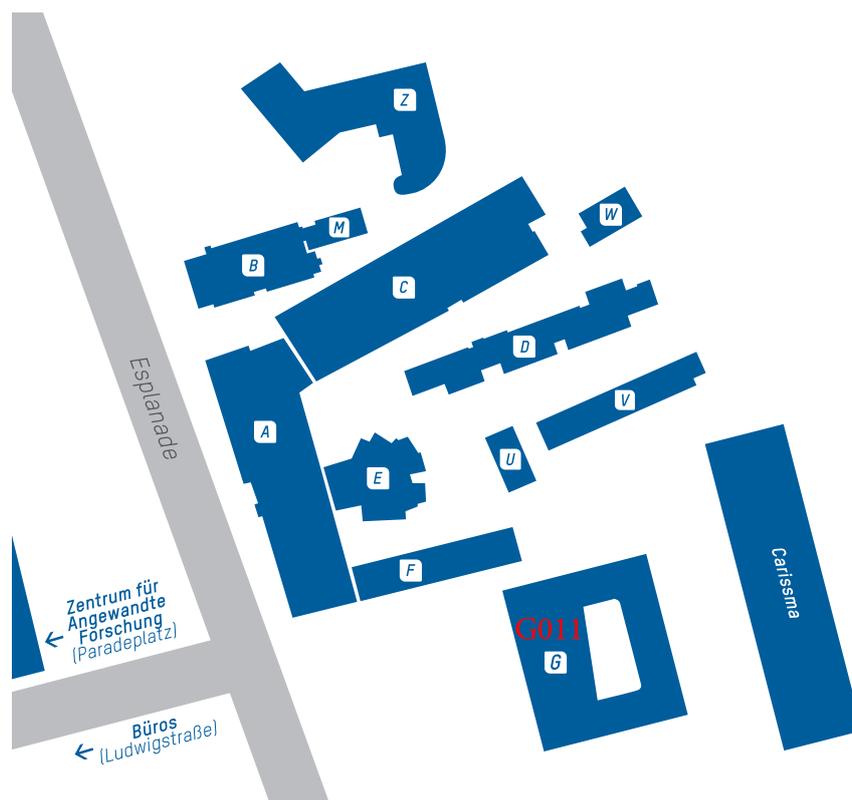
## Thursday 17th September 2015

### CAMPUS MAP AND DIRECTIONS:

**By train:** Ingolstadt central station is situated south of Ingolstadt and outside the city centre. Buses 15, 16 and 44 will take you directly to the main entrance of the university (Bus stop: "Technische Hochschule"). Trains: [www.bahn.de](http://www.bahn.de)

**By plane:** The local bus line "Ingolstädter Airport Express (X 109)" has an hourly connection to/ from Munich airport Franz Josef Strauß (MUC). You can reach the three busstops there via

"Terminalbereich A/B", "München Airport Center" or "Terminal 2". Your exit in Ingolstadt is ZOB (Zentraler Omnibusbahnhof) just around the corner from us. Follow Esplanade and reach THI within 5 min. walking distance. [www.invg.de/fahrplan\\_airport\\_express](http://www.invg.de/fahrplan_airport_express)



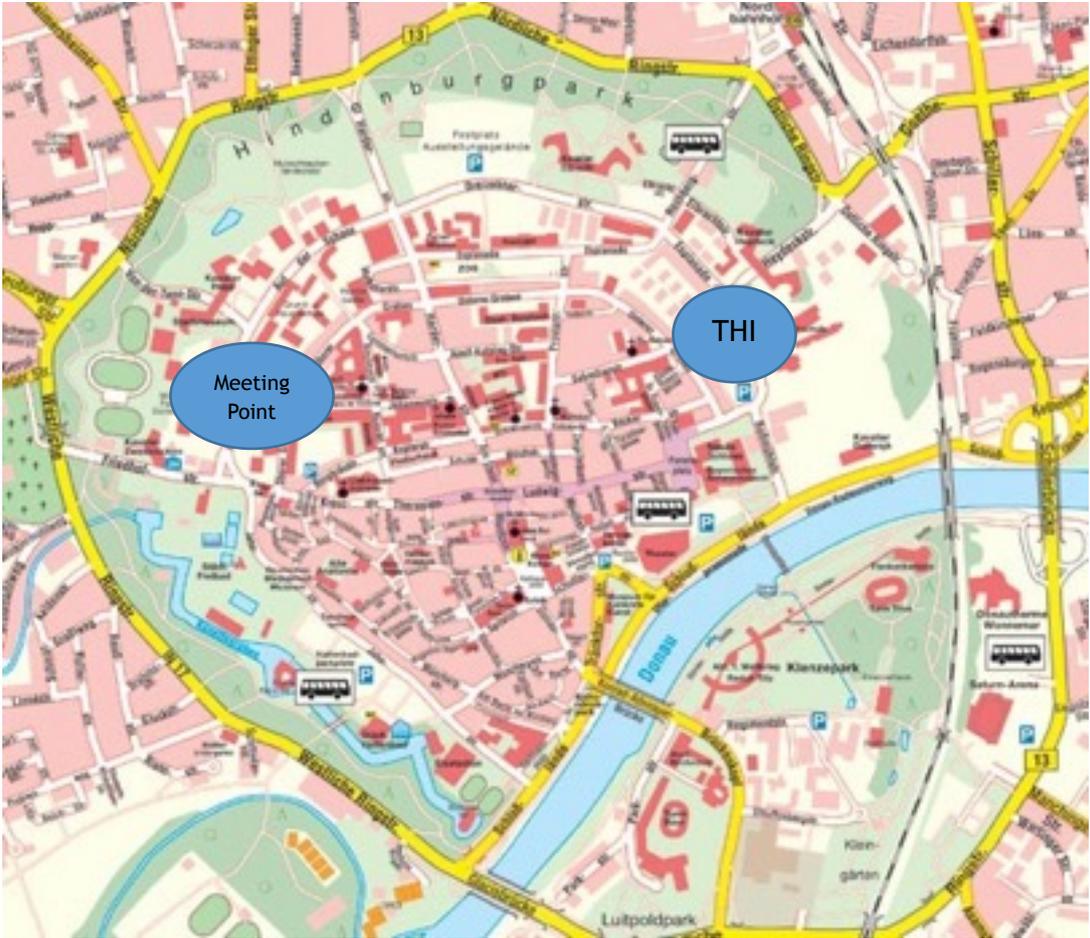
08:30-09:30	Registration and Coffee
09:30-09:45	Conference opening and Welcome
09:45-10:45	<p><b>Keynote: Security and Trust for Networked Control and Sensor Systems</b>  <b>John S. Baras (University of Maryland)</b>  John holds a joint appointment as professor in the Department of Electrical and Computer Engineering and the Institute for Systems Research. He was the founding director of ISR, which is one of the first six National Science Foundation engineering research centers. Dr. Baras is the Lockheed Martin Chair in Systems Engineering and is the founding and current director of the Center for Hybrid and Satellite Communication Networks, a NASA commercial space center. He also serves as a faculty member of the university's Interdisciplinary Program in Applied Mathematics and an affiliate professor in the Computer Science</p>
10:45-11:10	Coffee
11:10-12:30	<p>Laurens Lemaire, Jan Vossaert, Joachim Jansen and Vincent Naessens.  <b>Extracting Vulnerabilities in Industrial Control Systems using a Knowledge-Based System</b></p> <p>Roman Schlegel, Sebastian Obermeier and Johannes Schneider.  <b>Assessing the Security of IEC 62351</b></p>
12:30-13:30	Lunch
13:30-14:50	<p>Alexandru Vlad Serbanescu, Sebastian Obermeier and Der-Yeuan Yu  <b>ICS Threat Analysis Using a Large-Scale Honeynet</b></p> <p>Tingting Li and Chris Hankin  <b>A Model-based Approach to Interdependency between Safety and Security in ICS</b></p>
14:50-15:15	Coffee
15:15-16:35	<p>Peter Eden, Andrew Blyth, Pete Burnap, Yulia Cherdantseva, Kevin Jones, Hugh Soulsby and Kristan Stoddart  <b>A Forensic Taxonomy of SCADA Systems and Approach to Incident Response</b></p> <p>Cordell C. Davidson, Joel Dawson, Paul Carsten, Mark Yampolskiy and Todd R. Andel  <b>Investigating the Applicability of a Moving Target Defense for SCADA Systems</b></p> <p>Ying He and Helge Janicke  <b>Towards Agile Industrial Control Systems Incident Response</b></p>
16:35	Walk (10-15min) to Sightseeing Tour (see last page for a map)
17:15	Sightseeing Tour. Meeting point <b>Southern Portal, Münster</b> (Contact: Mrs Pilz +49-170-3202430 or Mrs Schulte +49-0160-91908271) covering exciting history from one of the oldest German Universities to the history of Frankenstein and the Illuminati.
18:30	Conference Dinner at a traditional Bavarian restaurant " <b>Schanzer Rutsch'n</b> " Downtown.

# Friday 18th September 2015

08:30-09:00	Coffee
09:00-10:00	<p><b>Keynote: ICS for Everybody</b>  <b>John Matherly (SHODAN)</b></p> <p>John Matherly is an Internet cartographer, speaker and founder of Shodan, the world's first search engine for the Internet-connected devices. Born and raised in Switzerland, he attended the Freies Gymnasium in Zurich where he majored in business and law until he moved to the San Diego, USA at the age of 17.</p> <p>There he worked at the San Diego Supercomputer Center to help manage the world's foremost protein data bank. At the same time, he was also attending the University of California San Diego's bioinformatics program which would kindle the fascination with large data and efficient algorithms. His final project included analyzing the human genome for exon code regions and mapping them to proteins while accounting for alternative splicing. After graduating, he worked as a freelance software engineer at a variety of companies including bioinformatics work.</p>
10:00-11:00	<p>Ivo Friedberg, Kieran McLaughlin and Paul Smith  <b>A Cyber-Physical Security Analysis of Synchronous-Islanded Microgrid Operation</b></p> <p>Christoph Lang-Muhr, Matthias Schrattenholzer and Paul Tavolato  <b>Multi-Layer Agent-Based Simulation of Network Behaviour in Advanced Metering Infrastructures</b></p>
11:00-11:20	Coffee
11:20-12:30	<p><b>Invited Industry Talk:</b> Florian Lechner (Audi)  <b>Information Security challenges in highly automated production environments</b></p> <p>AUDI AG is a leading manufacturer of premium passenger vehicles with sales exceeding 1.8M vehicles in 2014. Production capacity is located around the globe, with large production plants in Europe and China, and medium-sized CKD-plants for example in India or Brazil. AUDI AG is always aiming to find the best possible technology with the best total cost of ownership when it comes to producing our vehicles with same claim for superior quality at everyone of our production plants.</p> <p>Information Security has always been a high value when it comes to safeguarding intellectual property or infrastructure security. As such, AUDI AG has always invested money and effort in these areas, to ensure information and IT security at all of our premises. Vehicle production has specific and extended needs regarding information security. A highly automated production process requires huge investments in machines that have a long life span, in some cases up to 30 or 40 years, most machines being used throughout at least one life cycle of a vehicle generation of 6-7 years.</p> <p>Technologies that have long left private house holds, like Windows XP or WEP secured WLANs are often times still in service, due to the large penetration in the factory. Keeping up with this pace and finding the right solution for the specific production related areas is a key challenge for us and is getting more important, as new trends like the Internet of Things seek its way into our production environment. We'd like to take you on a journey to show you, which steps AUDI AG has taken to master these challenges in the past, and what our plans are for the future.</p>
12:30-13:30	Lunch

13:30-14:50	<p>Manuel Cheminod, Luca Durante, Lucia Seno and Adriano Valenzano  <b>Analysis of exploitable vulnerability sequences in industrial networked systems: a proof of concepts</b></p> <p>Adam Wedgbury and Kevin Jones  <b>Automated Asset Discovery in Industrial Control Systems - Exploring the Problem</b></p>
14:50-15:15	Coffee
15:15-16:35	<p>Johannes Schneider, Sebastian Obermeier and Roman Schlegel  <b>Cyber Security Maintenance for SCADA Systems</b></p> <p>Giuseppe Settanni and Florian Skopik  <b>A Blueprint for a Pan-European Cyber Incident Analysis System</b></p> <p>Paul Carsten, Todd Andel, Mark Yampolskiy, Jeffrey McDonald and Samuel Russ  <b>A System to Recognize Intruders in Controller Area Network (CAN)</b></p> <p>Grigoris Tzokatziou, Leandros Maglaras and Helge Janicke  <b>Insecure by Design: Using HID devices to exploit SCADA systems</b></p>
16:35	Close of Conference

Map of the inner city. Meeting point highlights the start of the historic tour through Ingolstadt as part of the evening programme.



This programme is accurate at the time of release, the organisers may need to accommodate changes during the event which can not be foreseen.

