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Wireless Congress 2017: Systems & Applications

Congress Fees*	by Oct 11	after Oct 11
One-Day (Nov 15 **or** 16, 2017)	690,– €	790,– €
Full Congress (Nov 15 **and** 16)	1,090,– €	1,190,– €

* *All prices excluded VAT.*

Terms and Conditions:

1. The attendance fee includes participation on the booked conference days, proceedings, lunch and refreshments.
2. You will receive a confirmation of your conference registration along with your invoice.
3. Cancellations received in writing before or on October 24, 2017 will be subject to a service charge of EUR 50 for one-day registrations and EUR 100 for two-day registrations. For all cancellations received after October 24, 2017 the full conference fee remains payable. Substitutions within the same company are welcome at any time.
4. The organizers reserve the right to make changes in the program and/or speakers or to cancel sessions/ tutorials if conditions beyond its control prevail. Please check **www.wireless-congress.com** for the latest conference information.
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7. For registrations of five persons and more from one company, please contact our conference department for special rates.
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9. All fees excluded VAT.

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Registration | Fill in, send, take part.

I want to register for:* **My Choice**

- ☐ **Only DAY 1** (Nov. 15, 2017)
- ☐ **Only DAY 2** (Nov. 16, 2017)
- ☐ **Full Congress** (Nov. 15-16, 2017)

DAY 1 | Wednesday | November 15, 2017:

- ☐ S01: Mobile Communication
- ☐ S02: Security
- ☐ S03: Bluetooth I
- ☐ S04: Industrial
- ☐ S05: IoT I
- ☐ S06: Bluetooth II
- ☐ S07: Bluetooth III
- ☐ T01: IP 500
- ☐ T02: Antenna

DAY 2 | Thursday | November 16, 2017:

- ☐ S08: LPWAN
- ☐ S09: IoT II
- ☐ S10: Technology I
- ☐ S11: ZigBee
- ☐ S12: IoT III
- ☐ S13: Technology II
- ☐ T03: Weightless P
- ☐ T04: Compliance
- ☐ T05: LoRaWAN

We are member of ☐ Bluetooth SIG ☐ IP500 ☐ KNX ☐ ZIGBee ☐ Z-Wave ☐ EnOcean ☐ IQRF ☐ LoRa ☐ Weightless SIG ☐ ZVEI

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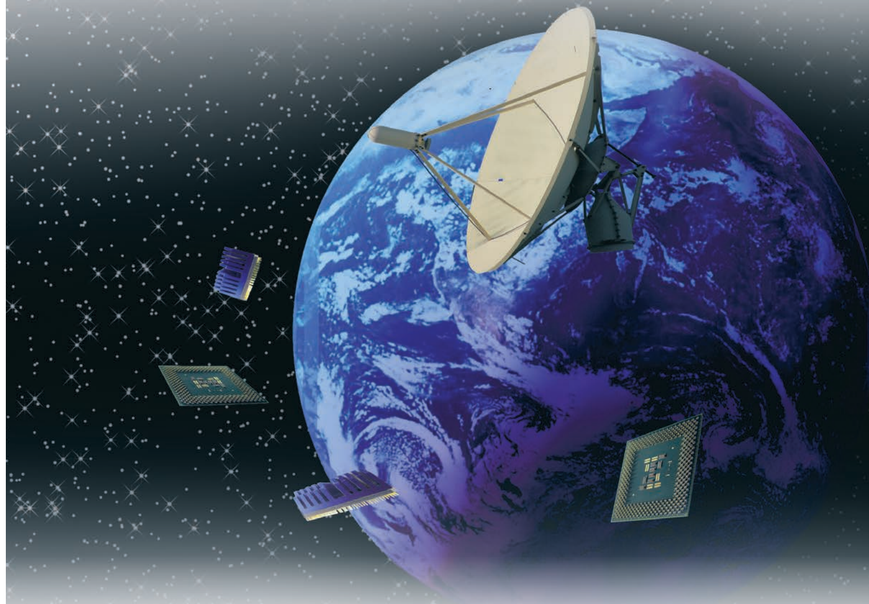
The Annual Highlight of the Wireless Community!

Wireless Congress 2017: Systems & Applications

November | 15 - 16, 2017
Munich | Germany



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Wireless Congress 2017 – Wireless Technology is Key

The development of new wireless technologies, like Narrowband IoT/5G, Low-Power Wide Area Networks (LPWAN) or Bluetooth mesh, is the key enabler for innovative applications and business models in industrial, automotive and medical technologies. Low energy, high security, low latency, high bandwidth are some of the requested features.

- With Bluetooth mesh, smartphones can be directly integrated into a low power wireless mesh network for smart buildings and smart control.
- With LPWAN sensor nodes and smart meters can potentially transmit data with ultra-low energy and cost for several years without changing the battery.
- With 5G the latency will be minimized to support fast response for control applications and autonomous mobile systems.

In 2017, the Wireless Congress program will not only focus on the new technologies and trends for mobile radio communication using NB-IoT/M2M and LPWAN, on industrial IoT and on the new Bluetooth mesh standard, but will also address RF technologies, security, wireless automation, WLAN, wireless testing and standardization, long range technologies and localization.

With this congress program we continue to provide information on novel wireless technologies for developers, system designers, technology decision-makers, project managers and wireless system authorities to meet experts from the wireless industry, researchers and scientists. The Wireless Congress 2017 will give a comprehensive overview of current wireless standards, protocols and applications, safety and security aspects, system design tips, technology enhancements, standardization and market opportunities. There will be 53 presentations, 3 keynotes, and 5 tutorials in 2 days.

We are very much looking forward to meet you in Munich for the Wireless Congress 2017.

Prof. Dr.-Ing. Dipl.-Ing. Dipl. Wirt.-Ing. Axel Sikora,
University of Applied Sciences Offenburg, Hahn-Schickard, Scientific Advisor

Dipl.-Ing. Harry Schubert,
Editor, Elektronik

DAY 1 | Wednesday | November 15, 2017

08:55 - 09:00	**Welcome**	Prof. Dr. Axel Sikora, University of Applied Sciences Offenburg	
09:00 - 09:30	**OPENING KEYNOTE: Driving Innovations for Industrial Internet and IoT**	Len Jelinek, IHS Markit	
09:30 - 10:00	**KEYNOTE**	Prof. Dr. Frank Fitzek, Technische Universität Dresden	
10:00 - 10:30	BUSINESS BREAK IN EXHIBITION AREA		
	Session 01: Mobile Communication	**Session 02: Security**	**Session 03: Bluetooth I**
10:30 - 11:00	**NB-IoT – Pros and Cons of the new LPWA Radio Technology!** Lyn Matten, mm1 Technology	**Security Tradeoffs and Commissioning Methods for Wireless IoT Protocols** Lars Lydersen, Silicon Labs	**Driving the Industry 4.0 Opportunity and Reality with Bluetooth Technology** Kelly Olsson, Bluetooth SIG
11:00 - 11:30	**Mastering Low-Power Application Design for NB-IoT and eMTC** Joerg Koepp, Rohde & Schwarz	**Lifetime Security Design and Infrastructure for IoT and Wireless Devices** Georg Rudolph, Bosch SoftTec	**Is Bluetooth Mesh Technology Ready for IoT?** Mikko Savolainen, Silicon Labs
11:30 - 12:00	**Experiences from a First Pilot of a NB IoT Smart Meter** Wolfgang Esch, WEPTECH elektronik Ludger Boeggering, u-blox	**Securing Wireless Applications in Financial Services: the Current Landscape** Tej Aulakh, Spirent Communications	**Is the Newest Bluetooth 5 Breakthrough for the Consumer Wireless Technologies (Wi-Fi, Bluetooth, NFC) in Smart Home?** Walter Puhl, MSC Technologies an Avnet Company
12:00 - 12:30	**5G-MLab: Developing a Wireless Reliability Measurement Framework** Matthias Herlich, Salzburg Research	**Stronger when Tested** Vishwapathi Rao Tadinada, NXP	**Is Bluetooth 5 / Mesh a Threat for Thread?** Knut Sennewald, Avnet Silica
12:30 - 13:30	LUNCH BREAK IN EXHIBITION AREA		
	Session 04: Industrial	**Session 05: IoT I**	**Session 06: Bluetooth II**
13:30 - 14:00	**Innovative Wireless Technologies for Industrial Real-Time Closed-Loop Applications** Prof. Dr. Armin Dekorsy, Universität Bremen	**Wireless Interoperability: Challenges in Connecting Things Together** Chandra Suram, NXP	**Silicon-related, Beacons and Physical Web Enabling a New IoT** John Leonard, Nordic Semiconductor
14:00 - 14:30	**Reliable Radio Technologies for Industrial Controls** Ulrike Roedig, Infineon (TBC)	**emb: 6a Modular, OS-independent 6Lo stack Implementation** Minh Phuong Nguyen, University of Applied Sciences Offenburg	**Evaluating the Performance of Smartphones Scanning for Low Energy Beacons** Prof. Dr. Marcel Meli, ZHAW InES
14:30 - 15:00	**Low-Latency and Reliable Industrial Communication** Dr. Maciej Muehleisen, Ericsson	**Connect your Low Power Wireless Industrial IoT Devices to the Cloud** Richard Stamvik, Multitech	**Determining Position Using Bluetooth Low Energy** Brian Senese, OpenSynergy
15:00 - 15:30	**Secure Radio Systems for Future-faced Human-machine Interaction and Reliable Real Time Networks for Industrial Internet** Sergiy Melnyk, Deutsches Forschungszentrum für künstliche Intelligenz (DFKI)	**Miniaturizing IoT Designs** Tom Nordman, Silicon Labs	**Bluetooth Adds Smartphone Connectivity to Zigbee Devices through Multiprotocol Solutions** Dave Egan, Silicon Labs
15:30 - 16:00	BUSINESS BREAK IN EXHIBITION AREA		
	Tutorial 01: IP500	**Tutorial 02: Antenna**	**Session 07: Bluetooth III**
16:00 - 16:30	**IP500 at the Glance** **IP500 Wireless Technology / Solution** **IP500 Module Integration in SmartDevices**	**Self-Made Embedded Antenna Design versus Chip Antenna** **Designing and Testing Antennas from Wireless Prototype to Production** Harald Naumann, Tekmodul Roger Denker, Megiq	**Bluetooth 5 – Crucial for Real Industrial Applications** Pelle Svensson, u-blox
16:30 - 17:00	**Redundancy in Wireless Sensor Networks for Commercial Buildings**		**Enabling Supply Chain Transparency with Bluetooth** Olaf Herr, Bosch Connected Devices and Solutions
17:00 - 17:30	**IP500 Infrastructure – Scalability and Redundancy** **Security and Access Applications certified by VdS**		
17:30 - 18:00	**IP500 Certification Process & Tools** **IP500 SmartIndustry Project "Freiburg"** Helmut Adamski, CEO & Chairman of the IP500 Alliance et al.		**Developing Bluetooth 5 applications with Silicon Labs Thunderboard Sense** Oleg Belogov, Silicon Labs
18:00 - 20:00	EVENING MIXER		

DAY 2 | Thursday | November 16, 2017

08:55 - 09:00	**Welcome**	Prof. Dr. Axel Sikora, University of Applied Sciences Offenburg	
09:00 - 09:45	**KEYNOTE: Cellular Technology Evolution for the Internet of Things (NB-IoT, CAT-M, 5G,…)**	Dr. Ulrich Dropmann, Nokia BellLabs	
09:45 - 10:00	**Digi-Key IOT – Inspiring the future: Role of Distribution within the "wireless eruption"**	Hermann W. Reiter, Digi-Key Electronics	
10:00 - 10:30	BUSINESS BREAK IN EXHIBITION AREA		
	Session 08: LPWAN	**Session 09: IoT II**	**Session 10: Technology I**
10:30 - 11:00	**Sigfox – How Industrial IoT Transforms Business** Aurelius Wosylus, Sigfox Germany	**IoT Ready Self-powered Sensor Platform Using Ultra Low Power Wireless Wakeup Technology** Dr. Tolgay Ungan, endiio	**Avoiding Down Times – Monitoring, Diagnostics and Trouble-shooting of Industrial Wireless Systems** Andreas Frotzscher, Fraunhofer IIS / EAS
11:00 - 11:30	**LoRaWAN New Technology for Sensor Networks** Michael Fink, Semtech Germany	**SmartMAC – An Energy-Efficient Real-Time-Capable Wake-On-Radio-Protocol for 6LoWPAN** Prof. Dr. Axel Sikora, University of Applied Sciences Offenburg	**Coexistence Management with Central Coordination of Wireless Applications** Marko Kraetzig, ifak
11:30 - 12:00	**Limitations of Current LP-WAN Systems** Prof. Dr. Marcel Meli, Raphael Kraeuchi, ZHAW InES	**S-net – an Energy-efficient Wireless Technology for the IOT** Dominik Elberskirch, Fraunhofer IIS	**Secure Full Capacity Multi-Cell Communication with Li-Fi Systems** René Kirrbach, Fraunhofer IPMS
12:00 - 12:30	**Comparing Selected Sub-GHz Transceivers – Results from the Field** Prof. Andreas Rüst, ZHAW InES	**Your IoT Pilot Project Up and Running within Couple of Days** Simon Chudoba, IQRF Alliance	**Industry-Standard Methods for Selecting an MCU for Wireless IoT Devices** Monica Redon, Analog Devices
12:30 - 13:30	LUNCH BREAK IN EXHIBITION AREA		
	Session 11: ZigBee	**Session 12: IoT III**	**Session 13: Technology II**
13:30 - 14:00	**Zigbee Mesh Technology – the Communications Foundation of the IoT** Dr. Arasch Honarbacht, Zigbee Alliance	**Radio Regulatory Requirements for the IoT** Jon Harros, Element	**Fixed Function or Programmable Communication IP?** Richard Edgar, Imagination Technologies
14:00 - 14:30	**Zigbee Smart Energy 1.4** Jon Harros, Element	**Dotdot – The Universal Language of the IoT** Victor Berrios, Zigbee Alliance	**Energy Harvesting from Vibrations of a Pumping Station** Prof. Dr. Juan-Mario Gruber, ZHAW
14:30 - 15:00	**Zigbee (3.0) Base Device and Application Behavior** Dr. Arasch Honarbacht, Zigbee Alliance	**Smart Wireless Solutions – Building Trust in the Internet of Things (DEWI & SCOTT)** Dr. Werner Rom, Dr. Michael Karner, Virtual Vehicle / Research Center	**UHF-RFID (RAIN) and NFC Combined with Cloud Technologies Enabling a New World of Logistic and Marketing Tools** Walter Puhl, MSC Technologies an Avnet Company
15:00 - 15:30	**Regulation and Certification for Zigbee** Jon Harros, Element	**Wireless Communication for Industry 4.0 – Technologies, Use Cases and Challenges** Milan Popovic, PMR Research & Development	**Ultra Low-energy Positioning for LoRA** Martin Seneclauze, CSEM
15:30 - 16:00	BUSINESS BREAK IN EXHIBITION AREA		
	Tutorial 03: Weightless P	**Tutorial 04: Compliance**	**Tutorial 05: LoRaWAN**
16:00 - 16:30	**Weightless-P Hardware Hands-on Workshop** Fabien Petitgrand, Ubiik	**Worldwide Radio Approvals, Different Type Approval Processes** Dr. Uwe Dollitz, PHOENIX TESTLAB	**LoRaWAN Sensor to Application Simple Flexible Communication Structure** **LoRaWAN a Solution for Private and Public, Local and Worldwide LP Networks Function of a LoRaWAN GW, Versions of GWs 1.0 /1.5/2.0 and the PicoGW Basics of the LoRaWAN Capacity Options** **Building a LoRaWAN Temp Sensor Using Open Source Software** **Show How to Connect a Sensor Network (Using a IMST GW and a LoRaMote to Connect to a LoRiot Network)** **Q&A Discussion** Michael Fink, Semtech Germany; François Sforza, Semtech Grenoble
16:30 - 17:00			
17:00 - 17:30			

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