



The Annual Highlight
of the Wireless Community!

Wireless Congress 2016: Systems & Applications

November | 9 - 10, 2016
Munich | Germany

DAY 1 | Wednesday | November 9, 2016

09:00 - 09:05	Welcome			Prof. Dr. Axel Sikora, University of Applied Sciences Offenburg
09:05 - 09:30	KEYNOTE: Low Power Wide Area – the Future of Industrial IoT Networking			Dale Ford, IHS Markit
09:30 - 10:00	KEYNOTE: Wireless Communication – Opportunities and Challenges for Industry 4.0			Prof. Dr. Hans D. Schotten, University Kaiserslautern
10:00 - 10:30	COFFEE BREAK & NETWORKING			
10:30 - 11:00	Session 01: Wireless IoT The Internet of Things is a Service Application Cees Links, GreenPeak-Qorvo	Session 02: Technology Industrial Radio Research – Insights from the BMBF Research Programme “ICT2020: Research for Innovations – Reliable Wireless Communications for Industry 4.0” Dr. Norman Franchi, TU Dresden	Session 03: Thread Understanding Thread Technology: The Future of IP-Based Mesh Networking for the IoT Skip Ashton, Silicon Labs/Thread Group	Session 04: LoRaWAN How an Open Standard Disrupts the LPWAN Market Marcus Walena, Dr. Gerald Troopenz, Digimondo
11:00 - 11:30	How to Select Wireless Technology for IoT-Platforms – A Guide through the Jungle Lyn Matten, mm1 Technology	Implementation Concept for Automated Wireless Coexistence Management Marko Kraetzig, ifak Magdeburg	Thread Network Topology & Co-Existence with Other Home Standards: Why 2.4GHz 802.15.4 & Mesh on Top of 6LoWPAN Robert Cragie, ARM/Thread Group	LoRa and LoRaWAN a Standard for Sensor Networks Michael Fink, Semtech Germany
11:30 - 12:00	Interoperability of Devices in the IoT – THREAD, ZigBee, Bluetooth, WiFi and Other Joe Lomako, Underwriters Laboratories	E-band Front End Module for Cost-Optimized Gigabit Datalinks Uwe Rüdendklaus, Infineon Technologies	Talk about Benefits of 802.15.4 for Low Power, Mesh Benefits to Extend Range + Direct Addressing from Cloud Greg Hodgson, Silicon Labs/Thread Group	LoRa Pushed to the Limit Alexander Raimondi, Miromico
12:00 - 12:30	Multiprotocol Analysis with Software Defined Radio for Short Range Devices Christian Roßberg, University of Technology Chemnitz	Li-Fi Communication for Industrial Real-time Data Links Michael Faulwaßer, Fraunhofer Institute for Photonic Microsystems IPMS	Thread Stack Layers and Review, Thread Device Commissioning, Thread System Integration Alin Lazar, NXP Semiconductors/Thread Group	Open Source Software-Stack for LoRaWAN Prof. Dr. Axel Sikora, Offenburg University of Applied Sciences
12:30 - 13:30	LUNCH BREAK & NETWORKING			
13:30 - 14:00	Leveraging the Range of Sub-1 GHz Technology to Connect Ultra-low Power IoT Sensors to the Cloud Ram Machness, Texas Instruments	Session 05: Energy Harvesting Powering Long Range Wireless Nodes with Harvested Energy Prof. Dr. Marcel Meli, ZHAW InES	Session 06: Z-Wave Towards Apple HomeKit – the New Z-Wave Security Architecture S2 Prof. Dr. Christian Paetz, TU Chemnitz	Certificare Necesses Est – Or why LoRaWAN-Certification is More than Useful Markus Ridder, IMST
14:00 - 14:30	Key Design Considerations for Ultra-Low-Power Wireless IoT Devices Greg Hodgson, Silicon Labs	Development of Rotational Electromagnetic Energy Harvesting Generator Dragan Dinulovic, Würth Elektronik eiSos	Developing Z-Wave-Devices with Energy Harvesting. Marco Bönig, Stagetronics	Field Study on the Performance of In-Car WLANs Dr. Florian Pfeiffer, perisens Bernd Napholz, Daimler
14:30 - 15:00	The Key to Connecting Smart Homes Brian Bedrosian, Cypress Semiconductor	Energy Autarkic Radio Sensor for Measuring Velocity of Wind Thorsten Zenner, Reutlingen University	Session 08: RFID Monitoring of Building Constructions with Passive RFID Technology Basil Brunner, Zurich University of Applied Sciences	Virtual Modelling of Unintentional and Intentional Electromagnetic Emissions from Electric Vehicles Dr. Pascal Hervé, CSA Group
15:00 - 15:30	Session 09: 6LoWPAN Verification and Validation of 6Lo Protocol Stacks Artem Yushev, IvESK, Offenburg University of Applied Sciences	Harvesting Energy from Small Temperature Differences Prof. Dr. Juan-Mario Gruber, Zurich University of Applied Sciences	A Passive RFID-to-I2C Bridge Dr. Ralf Hildebrandt, Fraunhofer Institute for Photonic Microsystems IPMS	Session 10: ULE DECT ULE as a Wireless Connectivity Technology in Embedded Applications Prof. Gerald Kupris, Technische Hochschule Deggendorf
15:30 - 16:00	COFFEE BREAK & NETWORKING			
16:00 - 16:30	Wake on Radio in Real Wireless Applications Manuel Schappcher, IvESK, Offenburg University of Applied Sciences	Tutorial 01: Worldwide Radio Approvals Worldwide Radio Approvals, Different Type Approval Processes Uwe Dollitz, Phoenix Testlab	Using NFC for Communication Between Devices in Laboratory Automation Peter Hildebrandt & Daniel Grabner, Zühlke Engineering	Tutorial 04: ULE Introduction to the ULE Technology & Alliance ULE Basics, Technical Overview ULE HAN-FUN Application Layer ULE over IP - 6LoWPAN ULE Certification Program Product Design with ULE over 6LoWPAN - Manufacturer's Experience Chipsets, Starter Kits & Development Tools Avi Barel et al., ULE Alliance
16:30 - 17:00	Tutorial 02: Energy Harvesting Introduction and Moderation Simulation of the Energy Conversion		Tutorial 03: EnOcean From EnOcean to Watson Oliver Fischer, Digital Concepts	
17:00 - 17:30	Robust and Reliable Piezoelectric Power Conversion for Autonomous Sensor Nodes		Remote Commissioning of EnOcean Networks & Installers Thomas Rieder, VICOS	
17:30 - 18:00	Robust Systemintegration Reliable Design for Vibrational Loads Energy Efficient Design of Autarkic Sensor Systems Dr. Olaf Wittler et al., Fraunhofer IZM		EnOcean Interoperability and Certification Program Norbert Metzner, Viessmann Hausautomation	

Sponsors: (06/10/2016)

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DAY 2 | Thursday | November 10, 2016

09:00 - 09:30	Session 11: ZigBee The ZigBee Alliance, a 15 Year History of Innovation for the Wireless IoT Victor Berrios, ZigBee Alliance	Session 12: Bluetooth Bluetooth: Transforming the Connected and Connectionless IoT with Bluetooth 5 Chuck Sabin, Bluetooth SIG	Session 13: Mobile Radio Communications/M2M The Potential of Cellular IoT – What to Expect after 3GPPs Agreement on Rel13 MTC Standard Extensions Matthias Weiss, CommSolid	Session 14: Wireless Power Empowering Future Devices with Wireless Power Jörg Hantschel, Würth Elektronik eiSos
09:30 - 10:00	ZigBee 3.0: One Solution for All IoT Applications Bozena Erdmann, Philips Lighting	Bluetooth Mesh: a Platform for Services Simon Slupik, Silvair	Evaluation of NB-IoT Cellular Solution for Internet of Things Daniela Raddino, Rohde & Schwarz	Selecting the Right Inductor for Wireless Power Transfer Cem Som, Würth Elektronik eiSos
10:00 - 10:30	ZigBee Application Layer Skip Ashton, Silicon Labs	Developing Beacons with Bluetooth Low Energy Technology Joe Tillison, Silicon Labs	Experiences from a First Pilot of a NB IoT Smart Meter Wolfgang Esch, WEPTECH elektronik	Flexible Approaches to Wireless Charging Johannes Fottner, Semtech Germany
10:30 - 11:00	France Linky Project Architecture Vincent Illionet, EDF	Easy and Safe Pairing for Bluetooth Smart Prof. Dr. Marcel Meli, ZHAW InES	KNX Secure - an Extension to the KNX Protocol for Any KNX Medium Joost Demarest, KNX	Wireless Power: Extended Power Profile in Qi v1.2 Winfried Bilgic, ROHM Semiconductor
11:00 - 11:30	COFFEE BREAK & NETWORKING			
11:30 - 12:00	RF4CE Remote Control Bram Van den Bosch, Qorvo	Bluetooth Low Energy Use in Automotive: Applications, Security and Data Throughput in 30 Minutes or Less! Brian Senese, OpenSynergy	Session 16: RF-Frontend Advances in System-level Modeling of Large Phased Arrays for 5G Applications Joel Kirshman, National Instruments	Design and Optimization of an Highly Integrated Inductive Power Transfer System for Pluggable Applications Stefan Ehrlich, Fraunhofer IISB
12:00 - 12:30	Regulation and Certification for ZigBee Products Jon Harros, Element Materials Technology	Chip or Module "Cookbook" for BLE Designs Thomas Rupp, Arendi	UWB Antennas to Enable Increased Security, Localization, and Monitoring Performance Andela Zaric, Taoglas	High Power Wireless Power Transfer for the Industrial Environment Cem Som, Würth Elektronik eiSos
12:30 - 13:30	LUNCH BREAK & NETWORKING			
13:30 - 14:00	Panel Discussion Low Power Wide Area Networks for industrial IoT – Licensed versus Unlicensed Bands? Simon Glassman (u-blox), Vivek Mohan (Semtech), Hamid-Reza Nazemann (Qualcomm), Jonathan Pearce (Microchip Technology), Fabien Petitgrand (Ubiik), Tobin Richardson (ZigBee Alliance), Chuck Sabin (Bluetooth SIG), Frank Schmidt-Künzel (Telefonica), Aurelius Wosylus (Sigfox) Panel Host: Prof. Dr. Axel Sikora, University of Applied Sciences Offenburg			Advantages of an OFDM-based Implementation for a Simultaneous Energy and Data Transmission through Inductively Coupled Resonances Eduardo Lloret Fuentes, University of Applied Sciences des Saarlandes
14:00 - 14:30	Session 17: Localisation	Tutorial 07: Bluetooth	Tutorial 05: Antenna Part I	PCB Coils for Wireless Charging Applications Uwe Maaß, Fraunhofer IZM
14:30 - 15:00	Improved Indoor Localization Approach Based on Bluetooth Low Energy Nizam Kuxdorf-Alkirata, Bergische Universität Wuppertal	Advanced Bluetooth Low Energy Development Adrian Eggenberger, Arendi	Self Made Embedded Antenna Design versus Chip Antenna Harald Naumann, Tekmodul & Author of the IoT/M2M Cookbook	Highly Resonant Wireless Power for Medical and Industrial Applications Colin McCarthy, WiTricity
15:00 - 15:30	Micro-Location: Adding Value and Security to the IOT Mickael Viot, Decawave			Certification and Regulatory Approval of a WPC Qi Device Niels Jeß, CETECOM
15:30 - 16:00	COFFEE BREAK & NETWORKING			
16:00 - 16:30	Session 18: Weightless Reliable, Ultra-low Energy, High-capacity Scalable Networking Fabien Petitgrand, M2COMM	Tutorial 09: IP500 IP500 at the Glance Helmut Adamski, IP 500 IP500 Technology / Solutions Zbigniew Janelli, CoreNetiX	Tutorial 05: Antenna Part II RF Measurements with Inexpensive USB Based Vector Network Analyzer Roger Denker, meiq RF Measurement Tools	Tutorial 08: RFID Smart RFID System Integration via OPC UA Prof. Dirk Reichelt, Fraunhofer Institute for Photonic Microsystems IPMS
16:30 - 17:00	Tutorial 06: LPWAN How to Run a Licence-free Long-range Radio Network Tim Simon Leßmann, PHOENIX CONTACT Electronics	IP500 redundancy & robustness in large wireless sensor network Florian Schintke, ZUSE Institut Berlin IP500 Mobile Guidance and Access based on BACnet Infrastructure / IP500 Infrastructure – Scalability & Redundancy Alexander Landgraf, GEZE, Frank Konrad, Microsens IP500 Certification Process & Tools Jens Hempel, TÜV Rheinland IP500 SmartCity Project Freiburg Peter Meyer, badenova		
17:00 - 17:30				
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