<table>
<thead>
<tr>
<th>Time</th>
<th>Session 01: Wireless IoT</th>
<th>Session 02: Technology</th>
<th>Session 03: Thread</th>
<th>Session 04: LoRaWAN</th>
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<tbody>
<tr>
<td>09:00-09:30</td>
<td>Welcome</td>
<td>Understanding Thread Technology: The Future of IP-Based Mesh Networking for the IoT</td>
<td>How an Open Standard Disrupts the LPWAN Market</td>
<td>LoRaWAN and LoRaWAN a Standard for Sensor Networks</td>
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<tr>
<td>09:30-10:00</td>
<td>KEYNOTE: Low Power Wide Area – the Future of Industrial IoT Networking</td>
<td>Keynote: Low Power Wide Area – the Future of Industrial IoT Networking</td>
<td>LoRa Pushed to the Limit</td>
<td>Open Source Software-Stack for LoRaWAN</td>
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<td>10:00-10:30</td>
<td>COFFEE BREAK &amp; NETWORKING</td>
<td>KEYNOTE: Wireless Communication – Opportunities and Challenges for Industry 4.0</td>
<td>Prof. Dr. Axel Sikora, University Applied Sciences Offenburg</td>
<td>Prof. Dr. Axel Sikora, Offenburg University of Applied Sciences</td>
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<tr>
<td>10:30-11:00</td>
<td>The Internet of Things is a Service Application Cees Links, GreenPeak-Qorvo</td>
<td>Industrial Radio Research – Insights from the BMBF Research Programme &quot;ICT2020: Research for Innovations – Reliable Wireless Communications for Industry 4.0&quot; Dr. Norman Franchi, TU Dresden</td>
<td>Understanding Thread Technology: The Future of IP-Based Mesh Networking for the IoT</td>
<td>Marcus Wiaena, Dr. Gerald Troopmen, Digimondo</td>
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<tr>
<td>11:00-11:30</td>
<td>How to Select Wireless Technology for IoT-Platforms – A Guide through the Jungle Lyn Matten, mm1 Technology</td>
<td>Implementation Concept for Automated Wireless Coexistence Management Marko Kraetzig, HFK Magdeburg</td>
<td>Thread Network Topology &amp; Co-Existence with Other Home Standards: Why 2.4GHz 802.15.4 &amp; Mesh on Top of 6LoWPAN Robert Crage, ARM/Thread Group</td>
<td>LoRa and LoRaWAN a Standard for Sensor Networks</td>
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<tr>
<td>11:30-12:00</td>
<td>Interoperability of Devices in the IoT – THREAD, ZigBee, Bluetooth, WiFi and Other Joe Lomako, Underwriters Laboratories</td>
<td>E-band Front End Module for Cost-Optimized Gigabit Datalinks Uwe Ruddenklau, Infineon Technologies</td>
<td>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</td>
<td>RoLa Pushed to the Limit</td>
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<tr>
<td>12:00-12:30</td>
<td>Multiprotocol Analysis with Software Defined Radio for Short Range Devices Christian Rößberg, University of Technology Chemnitz</td>
<td>Li-Fi Communication for Industrial Real-time Data Links Michael Faulwasser, Fraunhofer Institute for Photonic Microsystems IPMS</td>
<td>Thread Stack Layers and Review, Thread Device Commissioning, Thread System Integration Aln Lazer, NXP Semiconductors/Thread Group</td>
<td>Open Source Software-Stack for LoRaWAN</td>
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<td>12:30-13:00</td>
<td>LUNCH BREAK &amp; NETWORKING</td>
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<td>13:00-14:00</td>
<td>Leveraging the Range of Sub-1 GHz Technology to Connect Ultra-low Power IoT Sensors to the Cloud Ram Machness, Texas Instruments</td>
<td>Session 05: Energy Harvesting Powering Long Range Wireless Nodes with Harvested Energy Prof. Dr. Marcel Meli, ZHAW InES</td>
<td>Session 06: Z-Wave Towards Apple HomeKit – the New Z-Wave Security Architecture S2 Prof. Christian Paetz, TU Chemnitz</td>
<td>Certificate Necesses Est – Or why LoRaWAN-Certification is More than Useful Markus Ridder, IMST</td>
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<tr>
<td>14:00-14:30</td>
<td>Key Design Considerations for Ultra-Low-Power Wireless IoT Devices Greg Hodgson, Silicon Labs</td>
<td>Development of Rotational Electromagnetic Energy Harvesting Generator Dragan Dnilovic, Würth Elektronik eSos</td>
<td>Developing Z-Wave-Devices with Energy Harvesting, Marco Röning, Sategtronics</td>
<td>Field Study on the Performance of In-Car WLANs</td>
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<tr>
<td>14:30-15:00</td>
<td>The Key to Connecting Smart Homes Brian Bedrosian, Cypress Semiconductor</td>
<td>Energy Autarkic Radio Sensor for Measuring Velocity of Wind Thorsten Zenner, Reutlingen University</td>
<td>Monitoring of Building Constructions with Passive RFID Technology Basil Brunner, Zurich University of Applied Sciences</td>
<td>Virtual Modelling of Unintentional and Intentional Electromagnetic Emissions from Electric Vehicles Dr. Pascal Hervé, CSA Group</td>
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<td>15:00-15:30</td>
<td>Session 09: 6LoWPAN Verification and Validation of 6LoWPAN Protocol Stacks Artem Yudov, IvES, Offenburg University of Applied Sciences</td>
<td>Harvesting Energy from Small Temperature Differences Prof. Dr. Juan-Mario Gruber, Zurich University of Applied Sciences</td>
<td>A Passive RFID-to-I2C Bridge Dr. Ralf Hildebrandt, Fraunhofer Institute for Photonic Microsystems IPMS</td>
<td>DEFECT ULE as a Wireless Connectivity Technology in Embedded Applications Prof. Gerald Kupris, Technische Hochschule Deggendorf</td>
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<td>15:30-16:00</td>
<td>LUNCH BREAK &amp; NETWORKING</td>
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<td>16:00-16:30</td>
<td>Wake on Radio in Real Wireless Applications Manuel Schapcuer, IvES, Offenburg University of Applied Sciences</td>
<td>Tutorial 01: Worldwide Radio Approvals Worldwide Radio Approvals, Different Type Approvals Process Uwe Dollitza, Phoenix Testlab</td>
<td>Tutorial 04: ULE Introduction to the ULE Technology &amp; AlliancePeter Hildebrandt &amp; Daniel Grabner, Zühlike Engineering</td>
<td>Tutorial 03: EnOcean From EnOcean to Watson Oliver Fischer, Digital Concepts</td>
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# DAY 2 | Thursday | November 10, 2016

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<tr>
<td>09:00 - 09:30</td>
<td>The ZigBee Alliance, a 15 Year History for Innovation of the Wireless IoT</td>
<td>Bluetooth: Transforming the Connected and Connectionless IoT with Bluetooth 5</td>
<td>The Potential of Cellular IoT – What to Expect after 3GPPs Agreement on Rel13 MTC Standard Extensions</td>
<td>Empowering Future Devices with Wireless Power</td>
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<td>Victor Berrios, ZigBee Alliance</td>
<td>Chuck Sabin, Bluetooth SIG</td>
<td>Matthias Weiss, Commiloid</td>
<td>Jörg Hantschel, Würth Elektronik eSos</td>
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<td>09:30 - 10:00</td>
<td>ZigBee 3.0: One Solution for All IoT Applications</td>
<td>Bluetooth Mesh: a Platform for Services</td>
<td>Evaluation of NB-IoT Cellular Solution for Internet of Things</td>
<td>Selecting the Right Inductor for Wireless Power Transfer</td>
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<td>Bozena Erdmann, Philips Lighting</td>
<td>Simon Sulpik, Siivar</td>
<td>Daniela Radino, Rohde &amp; Schwarz</td>
<td>Corn Som, Würth Elektronik eSos</td>
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<tr>
<td>10:00 - 10:30</td>
<td>ZigBee Application Layer</td>
<td>Developing Beacons with Bluetooth Low Energy Technology</td>
<td>Experiences from a First Pilot of a NB IoT Smart Meter</td>
<td>Flexible Approaches to Wireless Charging</td>
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<td>Skip Ashton, Silicon Labs</td>
<td>Joe Tillson, Silicon Labs</td>
<td>Wolfgang Esch, WEPE TECH elektronik</td>
<td>Johannes Fottner, Semtech Germany</td>
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<td>10:30 - 11:00</td>
<td>France Lyink Project Architecture</td>
<td>Easy and Safe Pairing for Bluetooth Smart</td>
<td>KNX Secure - an Extension to the KNX Protocol for Any KNX Medium</td>
<td>Wireless Power: Extended Power Profile in Qi v1.2</td>
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<td>Vincent Ilionet, EDF</td>
<td>Prof. Dr. Marcel Meli, ZHAW INES</td>
<td>Boest Demarest, KNX</td>
<td>Winfried Bilge, ROHM Semiconductor</td>
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<td>11:00 - 11:30</td>
<td>COFFEE BREAK &amp; NETWORKING</td>
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<td>11:30 - 12:00</td>
<td>RF4CE Remote Control</td>
<td>Bluetooth Low Energy Use in Automotive: Applications, Security and Data Throughput in 30 Minutes or Less!</td>
<td>Design and Optimization of an Highly Integrated Inductive Power Transfer System for Pluggable Applications</td>
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<td>Bram Van den Bosch, Qovo</td>
<td>Brian Senese, OpenSynergy</td>
<td>Stefan Ehrlich, National Instruments</td>
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<td>12:00 - 12:30</td>
<td>Regulation and Certification for ZigBee Products</td>
<td>Chip or Module “Cookbook” for BLE Designs</td>
<td>UWB Antennas to Enable Increased Security, Localization, and Monitoring Performance</td>
<td>High Power Wireless Power Transfer for the Industrial Environment</td>
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<td>Jon Harros, Element Materials Technology</td>
<td>Thomas Rupp, Andendi</td>
<td>Andela Zoric, Taqglas</td>
<td>Corn Som, Würth Elektronik eSos</td>
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<td>LUNCH BREAK &amp; NETWORKING</td>
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<td>13:30 - 14:00</td>
<td>Panel Discussion</td>
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<td>Low Power Wide Area Networks for industrial IoT – Licensed versus Unlicensed Bands?</td>
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<td>Simon Glassman (u-blox), Vivek Mohan (Semtech), Hamid-Reza Nazemann (Qualcomm), Jonathan Pearce (Micropip Technology), Fabien Petitgrand (Ubix), Tobin Richardson (ZigBee Alliance), Chuck Sabin (Bluetooth SIG), Frank Schmidt-Künzel (Telefonica), Aurelius Woskusky (Sigfox)</td>
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<td>14:00 - 14:30</td>
<td>Session 17: Localisation</td>
<td>Session 07: Bluetooth</td>
<td>Tutorial 05: Antenna Part I</td>
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<td>Improved Indoor Localization Approach Based on Bluetooth Low Energy</td>
<td>Advanced Bluetooth Low Energy Development</td>
<td>Self Made Embedded Antenna Design versus Chip Antenna</td>
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<td>Nizam Kuxdorf-Akriata, Bergische Universität Wuppertal</td>
<td>Adrian Eigenberger, Andendi</td>
<td>Harald Naumann, Tekmodul &amp; Author of the IoT/2M Cookbook</td>
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<td>14:30 - 15:00</td>
<td>Micro-Location: Adding Value and Security to the IoT</td>
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<td>Michael Vlot, Decawave</td>
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<td>15:30 - 16:00</td>
<td>Session 18: Weightless</td>
<td>Tutorial 09: IP500</td>
<td>Tutorial 05: Antenna Part II</td>
<td>Tutorial 08: RFID</td>
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<td>Reliable, Ultra-low Energy, High-capacity Scalable Networking</td>
<td>IP500 at the Glance</td>
<td>RF Measurements with Inexpensive USB Based Vector Network Analyzer</td>
<td>Smart RFID System Integration via OPC UA</td>
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<td>Fabien Petitgrand, M2COMM</td>
<td>IP500 Technology / Solutions Zbigniew Ianelli, CoreNetEX</td>
<td>Roger Denker, megiq RF Measurement Tools</td>
<td>Prof. Dirk Rechert, Fraunhofer Institute for Photonic Microsystems (IPMS)</td>
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<tr>
<td>16:00 - 16:30</td>
<td>Tutorial 06: LPWAN</td>
<td>IP500 redundancy &amp; robustness in large wireless sensor network Florian Schirnke, ZUSE Institut Berlin</td>
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<td>How to Run a License-free Long-range Radio Network</td>
<td>IP500 Mobile Guidance and Access based on BACnet Infrastructure / IP500 Infrastructure - Scalability &amp; Robustness</td>
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<td>Tim Simon Leßmann, PHOENIX CONTACT Electronics</td>
<td>Bicenia Erdmann, GEZ, Frank Konrad, Microssens</td>
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<td>16:30 - 17:00</td>
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<td>IP500 Certification Process &amp; Tools Jens Hempel, TUV Rheinland</td>
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<td>17:00 - 17:30</td>
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<td>IP500 SmartCity Project Freiburg Peter Meyer, badenova</td>
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<td>17:30 - 18:00</td>
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Please find further details at www.wireless-congress.com

Program is subject to change.