

EVENT PROGRAM DAY 1

10-12 November 2020 | virtual conference

wireless**CONGRESS**
systems & applications

11.20-11.35

Welcome Prof. Dr. Axel Sikora, University of Applied Sciences Offenburg

Session 1 Wi-Fi

11.40-12.00

Wi-Fi 6 and 6E – How 'Electrifying' Is the 6 for IoT & the Smart Home?

Cees Links, Qorvo

12.05-12.20

Wi-Fi Multi-User MIMO Robustness to Residential Channel Variation

Dr. Laurent Pierrugues, ON Semiconductor

12.25-12.50

Wi-Fi Sensing: Design, Applications and Future Trends

Dr. Laurent Pierrugues, ON Semiconductor

12.55-13.15

Wi-Fi 6 and 6E – Smart Home Enablement

Tony Testa, Qorvo

13.20-13.40

Session Panel Discussion (Live Q&A with all session speakers)

13.40-14.10

Lunch and Networking Break

Session 3 Low Power Communication

14.10-14.30

Energy Autonomous Wireless Sensor for Walls and Bridges

Prof. Dr. Marcel Meli, ZHAW InES; Benjamin Majj, ZHAW-InES

14.35-14.55

Smart Radiator Based on Energy Harvesting

Prof. Dr. Juan-Mario Gruber, ZHAW InES

15.00-15.20

KNX-RF Multi Goes Low Power

Christoph Sahn, Jens Kamenik, ise Individuelle Software und Elektronik GmbH

15.25-15.45

NFC and EnOcean Energy Harvesting – the Perfect Duo for the IoT

Markus Kreitmair, EnOcean GmbH

15.50-16.10

The Amanda Project

Prof. Dr. Marcel Meli, ZHAW InES

16.15-16.35

Session Panel Discussion (Live Q&A with all session speakers)

Session 2 Technology I

Comparison of Radio-Based Transmission Protocols in Smart Buildings

Prof. Dr. Michael Kroedel, IGT - Institut für Gebäudetechnologie

Project Connected Home over IP

Jon Harros, The Zigbee Alliance

RF MEMS Switch Technology Driving 5G Solutions

Eric Carty, Analog Devices

Building Blocks of IoT - Smart Sensors and Gateways Based on LoRa, LoRaWAN, NB-IoT, WiFi and BT5

Ralf Schoula, m2m Germany

Session Panel Discussion (Live Q&A with all session speakers)

Session 4 Industrial

Ultra-Reliable and Real-Time Wireless Industrial Networks

Jorge Juarez, Fraunhofer IIS

Wireless Condition Monitoring on Large Scale - a Success Story by Schaeffler and Wirepas

Thomas Weissaupt, Wirepas Germany GmbH; Sebastian Mergler, Schaeffler AG

A Real-Time Seamless Handover Mechanism for WSNs in the IIoT

Lukas Krupp, Fraunhofer IMS

Developing Wireless Human-Machine Interfaces for Industrial Applications

Mikko Niemi, Silicon Labs

Benchmark of IP500 IoT Wireless Network and Redundant Infrastructure for Commercial Buildings

Helmut Adamski, IP500 Alliance; Prof. Dr. Stephan Bannwarth, University Offenburg; Ralf Hinter, DAFÜR;

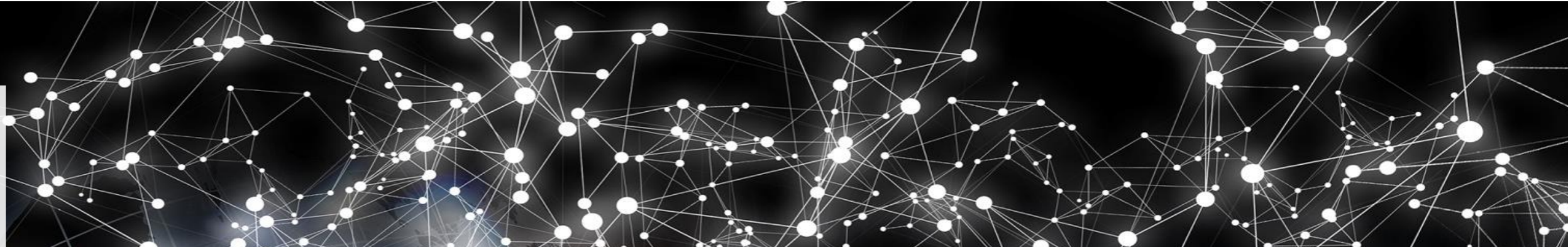
Prof. Dr. Faouzi Derbel, HTWK Leipzig, Vladimir Rakic, UMLAUT

Session Panel Discussion (Live Q&A with all session speakers)

EVENT PROGRAM DAY 2

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11.00-11.05	Welcome Prof. Dr. Axel Sikora, University of Applied Sciences Offenburg	
11.05-11.25	Keynote: A Roadmap for 5G Implementation in the Industrial Market Joseph Barry, Analog Devices	
11.30-11.50	Keynote: 5G Goes Industry 4.0 Dr. Josef Blanz, Qualcomm CDMA Technologies GmbH	
11.55-12.15	Keynote: Semiconductor Components for Terahertz Electronics Prof. Dr. Nils Weimann, University of Duisburg-Essen (UDE)	
12.20-12.50	Panel Discussion: The Future of Wireless	
12.50-13.20	Lunch and Networking Break	
	Session 5 Compliance	Session 6/8 LPWAN
13.20-13.40	Regulation defying reality - The EU Com plans rules that can mean the end for modern radio systems Guido Koerber, Code Mercenaries Hard- und Software GmbH	LPWAN and Energy Less Alternatives Harald Naumann, tekmodul GmbH
13.45-14.05	Security articles in the Radio Equipment Directive, a status update for the industry François Ambrosini, umlaut communications GmbH	How to Develop and Test a Long-Range Radio Application for Low Power IOT with an Absolute Minimum of Effort Manfred Schommarz, Würth Elektronik eiSos GmbH & Co.KG
14.10-14.30	RED - Threats and damage control from parliamentary perspective Mikulas Peksa, European Parliament	How LoRaWAN Has Become the De Facto Leading Wireless Protocol for IoT Solutions Roelof Koopmans, Semtech (International) AG
14.35-14.55	Session Panel Discussion (Live Q&A with all session speakers)	Multi-Protocol Solutions for LPWAN David Rahusen, STACKFORCE
14.55-15.05	Networking Break	
	Session 7 Bluetooth	
15.05-15.25	Absolute Phase Measurements Using Off-the-Shelf Bluetooth Components Gerrit Maus, University of Wuppertal	Edge to Cloud LoRaWAN Enabled Solution for Very Low Power Geolocation Carlo Tinella, Semtech France; Sree Durbha, Semtech Corporation
15.30-15.50	LE Audio, Where Innovation, Market Needs, and Inclusiveness Converge Shewan Yitayew, Imagination Technologies	Achieving Energy Autonomy for LPWAN Nodes Prof. Dr. Marcel Meli, ZHAW InES
15.55-16.10	Session Panel Discussion (Live Q&A with all session speakers)	Session Panel Discussion (Live Q&A with all session speakers)

EVENT PROGRAM DAY 3

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10.25-10.30	Welcome Prof. Dr. Axel Sikora, University of Applied Sciences Offenburg	
10.30-11.05	Keynote: Demands and Requirements in Fire Protection and Security Techniques for Wireless Communication Günter Grundmann, VdS Schadenverhuetung	
11.05-11.25	Session 9 5G	Session 10 Technology II
11.30-11.50	Human Exposure to 5G Radiation: Challenges and Opportunities from Numerical Simulations Sergio Arianos, Ansys Germany GmbH	Wireless TSN: Opportunities, Challenges, and Industry Benefits of Extending TSN Capabilities over Wireless Networks I Suresh Kalyanasundaram, Intel Deutschland GmbH
11.55-12.15	5G Security Mechanisms – an Overview Peter Heusinger, Fraunhofer IIS	Wireless TSN: PTP Time Synchronization over IEEE802.11 Kamil Alkhouri, University of Applied Sciences Offenburg
12.20-12.40	Wideband Antenna Design and Integration Challenges for 5G Device Petri Mustonen, Radiantum Oy	Mobile Production Communication in a New Light Daniel Schneider, Fraunhofer IOSB-INA
12.45-13.05	Advanced Timing & Synchronization Requirements for Mobile Edge Computing and Virtualized RAN James Wilson, Silicon Labs	NeoCortec NeoMesh - Sub GHz Ultra Low Power Mesh Network Thomas Steen Halkier, Neocortec A/S
13.10-13.30	Session Panel Discussion (Live Q&A with all session speakers)	Session Panel Discussion (Live Q&A with all session speakers)
13.30-14.00	Lunch and Networking Break	
14.00-14.20	Session 11 Security	Session 12/13 Mioty
14.25-14.45	Embedded Security - How Can I Protect My Wireless IoT Devices Prof. Andreas Ruest, ZHAW InES	MIOTY – the New LPWAN Standard for Sub-1 GHz Communication Elin Wollert, Texas Instruments
14.50-15.10	IIoT Security - Integrated SIM for Supporting Public and Campus Networks Dr. Matthias Weiss, CommSolid GmbH	How to Overcome Challenges in the Bidirectional Communication of LPWAN with MIOTY Josef Bernhard, Fraunhofer IIS
15.15-15.35	Benefits of an Integrated Secure Element Versus an External Solution: More Than Cost Savings Marius Munder, Silicon Labs	Benefits of a Software Defined Radio Architecture for the Implementation of LPWAN Systems like Mioty Stefan Ereth, Fraunhofer IIS
15.40-16.00	VdS Pre-Conform - IP500 IoT Platform for Comfort & Security Applications for Commercial Buildings Helmut Adamski, IP500 Alliance; Frank Konrad, Trilux; Patrick Knödler, Kiotsoc; Armin Kaltenbacher, PcVue	Smart Metering Reloaded - How the Mioty Technology Solves the Challenge of Massive Scalability Demands and Telegrams I Hermann Trottler, Diehl Metering GmbH
16.05-16.25	Differential Power Analysis - a Gamechanger for Attacking IoT Devices Marius Munder, Silicon Labs	IIoT Based Temperature Profiling Challenge in Ultra High Current Environment with MIOTY Technology Uwe Scherf, WKA Alexander Wiegand SE
	Session Panel Discussion (Live Q&A with all session speakers)	Lessons Learned from the First Commercial MIOTY Roll-out for Smart Buildings in Toronto, CA Wolfgang Thieme, BehrTech
		Session Panel Discussion (Live Q&A with all session speakers)