Over the last years, the European Workshop on Smart Objects has become a central platform in Europe for personal networking and information exchange in the field of RFID technologies and applications.

Workshop SCOPE

While the networking of objects for the purpose of data collection and distributed control is no longer a recent phenomenon, the sheer number of things that are networked to information systems has dramatically risen. Today, the Internet is increasingly extended to all kinds of physical assets: product components, finished products, logistic units, equipment, documents, vehicles, buildings and electronical meters as well as embedded systems of all kind. Mature industries, like the energy or automotive are in euphoric mood and accordingly, we see enormous research and technological development activity: For instance, Auto-ID technologies such as RFID are being increasingly combined with data storage capacity and sensors or other communication devices that provide real-time data such as position, temperature, pressure, vibrations etc. These special-purpose computer systems are able to sense information from the real world or perform actions upon it and are also able to communicate with other networked computer systems.

Workshop Venue

Blockhaus, Neustädter Markt 19, 01097 Dresden, Germany

Local organizer:	Technical University of Dresden,
	Fraunhofer IPMS

Conference Fee / Registration

The conference fee:	for participants	250,00 €
	for speakers	225,00 €
	for students	150,00 €

Conference fee includes: Conference attention for both days, 1 copy proceedings (CD-ROM), Coffee-breaks, Lunch-snack, Social event. Opening of registration: **11.04.2011**. For online registration please visit our website.

You will be able to find permanently updated information under:

www.rfid-systech.eu

For further general information please feel free to contact:

info@rfid-systech.eu

Program Committee

☆	Frank Deicke (Fraunhofer-IPMS, Dresden, Germany)
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☆	Michael E. Wernle (Meshed Systems Munich, Germany)
☆	Uwe Wissendheit (IR-Systeme GmbH Hassfurt, Germany)
☆	Jürgen Wöllenstein (IMTEK and Fraunhofer IPM, Germany)
☆	Holger Ziekow (Humboldt-University Berlin, Germany)

Responsibilities

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PROGRAM

RFID SysTech 2011

7th European Workshop on RFID Systems and Technologies

17.05. – 18.05.2011
Dresden / Germany
Technical University of Dresden
Fraunhofer IPMS

AIM Association for Automatic Identification and Mobility

oe-a Organic Electronics Association

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TECHNISCHE UNIVERSITÄT DRESDEN

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VDE

Tuesday, 17.05.2011

Time	Session 1: Smart Systems for Supply Chain & Logistics	Session 2: New Technologies for Smart Objects
08:00	*Registration*	
09:00	**Workshop Opening** U. Wissendheit, J. Strüker	
09:15	**Industrial Presentations** Chair: M.E. Wernle, Meshed Systems, Munich, Germany	

Session 1: Smart Systems for Supply Chain & Logistics — Chair: J. Strüker | H. Ziekow | A. Pflaum — Location: Ground floor

Session 2: New Technologies for Smart Objects — Chair: E. Schmidt | F. Deicke — Location: First floor

Time	Session 1	Session 2
09:45	The not so unique Global Trade Identification Number – Exploring inconsistencies in online product information sources S. Karpischek, Auto-ID Labs / ETH Zurich, Zurich, Switzerland	
10:10	A Distributed EPC Discovery Service based on Peer-to-peer Technology M. Lorenz, Hasso Plattner Institute, Potsdam, Germany	
10:35	*Coffee Break / Industrial exhibition*	
11:00	Connecting Business Systems to the Real World: A Lean and Scalable Middleware for Device Integration J. Rode, SAP AG, Dresden, Germany	Battery powered tags for ISO / IEC 14443, actively emulating load K. Finkenzeller, Giesecke & Devrient GmbH, Munich, Germany
11:25	Wearable RFID for logistical processes M. Woelfle, University of Munich, Garching, Germany	Range Extension of an ISO / IEC 14443 type A RFID System F. Pfeiffer, perisens GmbH, Munich, Germany
11:50	RFID application within product life cycle of industrial textile & apparels H. Ruile, University of Applied Science, Brugg, Switzerland	Digital Radio Receiver for an UHF RFID System with an Under-sampling Digitalization Scheme S. Grey, Fraunhofer IMS, Duisburg, Germany
12:30	*Lunch / Industrial exhibition*	
13:30	**Keynote: IPv6 for Low-Power Wireless: Breakthrough Ahead?** Adam Dunkels, Founder, Networked Embedded Systems group, SICS, Kista, Sweden	
14:30	*Coffee Break / Industrial exhibition*	
15:00	License-based Access Control in EPCglobal Networks M.P. Schapranow, Hasso Plattner Institute, Potsdam, Germany	A Bidirectional Semi-Passive RFID Transponder Platform for the UHF Band A. Löffler, University of Erlangen-Nuremberg, Erlangen, Germany
15:25	A light-weight integration of an Auto-ID infrastructure J. Krenge, Research Institute for Operations Management at RWTH Aachen University, Aachen, Germany	Integrating RFID in Fibre-Reinforced Plastics T. Draeger, Fraunhofer IIS, Erlangen, Germany
16:15	*SAP Factory Tour (Shuttle service)*	
18:30	*Dresden Tour (Neumarkt)*	
20:00	*Dinner (Neumarkt)*	

Wednesday, 18.05.2011

Session 3: Transponder and Sensing — Chair: K. Finkenzeller — Location: Ground floor

Session 2: New Technologies for Smart Objects — Chair: A. Löffler — Location: First floor

Session 3: Transponder and Sensing	Session 2: New Technologies for Smart Objects	Time
Smart RFID Sensing and Data Logging S. Schubert, PE GmbH, Dresden, Germany	Localization of Passive UHF RFID Labels Using An Unscented Kalman Filter with Relative Position Information T. Nick, University of Dortmund, Dortmund, Germany	10:00
A Smart ISO 18000-6C RFID Sensor Tag Platform R. Hildebrandt, Fraunhofer IPMS, Dresden, Germany	A Novel Concept for a Long Lifetime Wireless Geofencing System With an Integrated Sub-10 µA Wake-Up Receiver H. Milosiu, Fraunhofer IIS, Erlangen, Germany	10:25
Coffee Break / Industrial exhibition		10:50

Session 3: Transponder and Sensing — Chair: T. Hollstein — Location: Ground floor

Session 4: Applications for Smart Systems — Chair: U. Wissendheit — Location: First floor

Session 3: Transponder and Sensing	Session 4: Applications for Smart Systems	Time
Radio frequency powering of microelectronic sensor modules G. vom Boegel, Fraunhofer IMS, Duisburg, Germany	A voice system, reading medicament label for visually impaired people P. Punyathep, North-Chiangmai University, Chiangmai, Thailand	11:15
A Passive UHF Transponder with Readout Circuits for External Mechanical Switches T. Feldengut, Fraunhofer IMS, Duisburg, Germany	Application to a warehouse environment of a tracking system based on RFID and free software Y. Pastor, CENIDET, Mexico	11:40
Lunch / Industrial exhibition		12:05
Keynote: Smart people, dumb objects, networked environments Usman Haque, Founder / CEO, Pachube, Connected Environments, London, UK		13:05
Closure of the Workshop		14:05
Coffee Break / Industrial exhibition		14:15
Fraunhofer IPMS: MEMS & OLED Company Tour (Shuttle service)		14:40
End		16:30