Preliminary time schedule

Wednesday 17.09.2014

08:30 - 09:30 Registration
09:30 - 10:00 Welcome

Prof. Dr. Gerhard Lindner, Director ISAT
Prof. Dr. Eckardt Ruchhöfe-Schuster, Vice President of Coburg University of Applied Sciences and Arts
Stephan Horn, Wirtschaftsförderungsgesellschaft Coburg
Reinhold Rosemann, AAMA Association for Sensor Technology

10:00 - 11:00 Opening Lecture
Reinhold Rosemann, AAMA Association for Sensor Technology
Sensors in the internet of things
Prof. Dr. James Friend, RMIT University, Melbourne, Australia
Acoustic microfluidics: from chip in a lab to lab on a chip
Dr. Takuya Higuchi, Friedrich-Alexander-Universität Erlangen-Nürnberg
A nano-scale vacuum tube diode triggered by few-cycle laser pulses

11:00 - 12:00 Short Contributions I

Prof. Dr. Ing. Andreas König, Technische Universität Kaiserslautern
Advances of the multi-sensor intelligent integrated Lab-on-Spares system for home-based food processing, analysis, and safety

Christoph Brückner, M.Eng., BestSens AG
Bearing monitoring by means of guided waves

12:00 - 13:00 Lunch Break

13:00 - 13:30 Invited Review Lectures I – Sensing technologies I

Prof. Dr. Jeffrey Martin, The University of Winnipeg, Canada
Magnetic sensors and controls for neutron electric dipole moment experiment

13:30 - 14:30 Short Contributions II

Eric Schulte Schäffert, M.Sc., Institut für Textiltechnik (ITA) RWTH Aachen University
Measurement of optical yarn properties by using absorption and diffraction of coherent laser light

Dipl.-Ing.(FH) Mussafa Eskin, Technologiezentrum Automobil der Hochschule Coburg (TAC)
Fuel quality sensor for biodiesel and biodiesel blends

Rongxiang Gu, Xian Chanastrat Mic, LTD
iHELP: pioneering wearable device of multi-sensors fusion

14:30 - 14:55 Coffee Break

14:45 - 15:45 Invited Review Lectures II – Microacoustic sensor systems

Dr. Jost Lötters, MESA+ Institute for Nanotechnology, University of Twente, The Netherlands
Integrated systems for the accurate measurement and control of micro liquid and gas flows

Fordgine Singer M.Eng., ISAT
Laser excitation of surface acoustic waves: fundamentals and applications

15:45 - 16:30 Short Contributions III

Dr. Astrid Stacheter, ISAT
Detection of organic dust particle deposition inside agricultural containers

Kenneth Li, M. Eng., Audiowell Electronics(Guangzhou) Co., Ltd., PR China
Detection of organic dust particle deposition inside agricultural containers

Dr. Astrid Stacheter, ISAT
Detection of organic dust particle deposition inside agricultural containers

16:30 - 17:00 Guided tour in the ISAT lab building
17:00 Reception and Dinner

Thursday 18.09.2014

08:30 - 09:10 Invited Review Lectures III – Acoustic actuators

Dr. Paul Weaver, National Physical Laboratory, United Kingdom
Tough actuators - Piezoelectric actuators in harsh environments
Dr. Bram Verhaagen, BuBclean, The Netherlands
Enhancing acoustic cavitation and streaming using artificial crevices

09:10 - 09:50 Short Contributions IV

Dr. Jens Rautenberg, SensAction AG
Time-of-flight measurements of Leaky Lamb waves in bubbly liquids

Marina Reißenweber, ISAT
Vibration induced atomization of a sessile drop

10:00 - 10:30 Coffee Break

10:30 - 11:00 Invited Review Lectures IV – Sensing technologies II

Prof. Dr. YinMing Zhu, University of Shanghai for Science and Technology, PR China
Organic materials and semiconductor devices detected by terahertz technology

Marina Reißenweber, ISAT
Vibration induced atomization of a sessile drop

11:00 - 12:00 Short Contributions V

Dipl.-Ing. (FH) Immanuel Rollfeustecher, ISAT
Excitation of ultrasonic transducers by using different binary codes
Prof. Dr. Thomas Wieland, Fraunhofer Application Center Wireless Sensor Systems
Tough actuation - Piezoelectric actuators in harsh environments

12:00 - 13:00 Lunch Break

13:00 - 14:00 Special Topic – Cryosensors

Project Partners „CryoSens“
Martin Siegel, M.Sc., German Aerospace Center, Institute of Space Systems
Advanced measurement techniques for the validation of CFD for cryogenic flows - An introduction

Dipl.-Ing. Magdalene Rossmann, Advanced measurement techniques for the validation of CFD for cryogenic flows - An introduction
Airbus Defence & Space GmbH
Dr. Astrid Stacheter, ISAT
Detection of organic dust particle deposition inside agricultural containers

14:00 - 15:00 Short Contributions VI

Cheng Liu, M.Sc., ChenYang Technologies GmbH & Co. KG
Error compensation in Hall effect current sensors and measuring systems

15:00 - 15:30 Coffee Break

15:30 - 16:30 Guided tour in the ISAT lab building

* subject to change