

Plenary Talk				
9:00-9:45	Quantum Computer - a New Technology for the Information Age Rainer BLATT			
9:45-9:50	Information about the next EUROSSENSORS Conference			
	ROOM 15.02	ROOM 15.03	ROOM 15.04	ROOM 15.05
	<b>Advanced Functional Materials for Sensing and Actuating</b>	<b>Chemical Sensors and Sensors for Food Industry</b>	<b>Bio(medical) Sensors, Devices and Microfluids</b>	<b>Piezoelectric, Dielectric, Capacitive and Magnetic Sensors</b>
	Contributed Talk - ID 7112	Contributed Talk - ID 7165	Contributed Talk - ID 7047	Contributed Talk - ID 7051
10:00-10:20	<b>Dewen ZHANG</b> Photoelectrochemical Imaging Using Carbon Dots (CDs) Derived from Chitosan	<b>Khalifa AGUIR</b> How the Chamber Design Can Affect Gas Sensor Responses	<b>Kean AW</b> A Portable & Disposable Ultra-Low Velocity Flow Sensor from Bioinspired Hair-Like Microstructures	<b>Maxime DUQUESNOY</b> Quartz Enhanced Photoacoustic Spectroscopy Based Gas Sensor with a Custom Quartz Tuning Fork
	Contributed Talk - ID 7381	Contributed Talk - ID 7289	Contributed Talk - ID 7514	Contributed Talk - ID 7446
10:20-10:40	<b>Thorsten GRAUNKE</b> Towards an Empirical Model for the Prediction of the Selectivity of Polymer Membranes	<b>Omar KASSEM</b> Fabrication of SnO <sub>2</sub> Flexible Sensor by Inkjet Printing Technology	<b>Divya BALAKRISHNAN</b> Redox Active Self-Assembled Monolayer Functioning As a Ph Actuator	<b>Eurico E. MOREIRA</b> Frequency Modulated Magnetometer Using a Double-Ended Tuning Fork Resonator
10:40-11:10	Coffee break			
	<b>Advanced Functional Materials for Sensing and Actuating</b>	<b>Chemical Sensors and Sensors for Food Industry</b>	<b>Bio(medical) Sensors, Devices and Microfluids</b>	<b>Piezoelectric, Dielectric, Capacitive and Magnetic Sensors</b>
	Contributed Talk - ID 7045	Contributed Talk - ID 7235	Contributed Talk - ID 7058	Contributed Talk - ID 7236
11:10-11:30	<b>Yuxin LIU</b> Highly Confined Love Waves Modes by Defects States in a Phononic Crystal Based on Holey-SiO <sub>2</sub> /ST-Cut Quartz Structure	<b>Arjen BOERSMA</b> Multiparameter Sensor Array for Gas Composition Monitoring	<b>Laura FOLKERTSMA</b> Reference-Electrode Free Ph Sensing Using Impedance Spectroscopy	<b>Florian PATOCKA</b> Novel MEMS Sensor for Detecting Magnetic Particles in Liquids
	Contributed Talk - ID 7480	Contributed Talk - ID 7222	Contributed Talk - ID 7114	Contributed Talk - ID 7153
11:30-11:50	<b>Jonas GROTEN</b> Screen Printed PVDF-TrFE-co-PbTiO <sub>3</sub> /BNT Nanocomposite for Selective Piezo- or Pyroelectric Sensing	<b>Yuxin XING</b> Thermal Modulation of a High-Bandwidth Gas Sensor Array in Real-Time for Application on a Mobile Robot	<b>Pierre-Yves IOUBERT</b> Bio-Impedance Non Contact Sensor for the Characterization of Burn Depth in Organic Tissues	<b>Samuel HUBER</b> A Gradiometric Magnetic Sensor System for Stray-Field-Immune Rotary Position Sensing in Harsh Environment
	Contributed Talk - ID 7469	Contributed Talk - ID 7466	Contributed Talk - ID 7204	Contributed Talk - ID 7175
11:50-12:10	<b>Ajay Giri Prakash KOTTAPALLI</b> MEMS Biomimetic Superficial and Canal Neuromasts for Flow Sensing	<b>Corrado DI NATALE</b> Development of Gas Sensor Array Based on Phthalocyanines Functionalized TiO <sub>2</sub> /ZnO Heterojunction Thin Films	<b>Pierre-Yves IOUBERT</b> Porous Polymer Based Flexible Pressure Sensors for Medical Applications	<b>Michael ORTNER</b> Modeling Planar Fluxgate Structures
	Contributed Talk - ID 7232	Contributed Talk - ID 7402	Contributed Talk - ID 7463	Contributed Talk - ID 7374
12:10-12:30	<b>Marco DELUCA</b> Influence of Crystalline Texture on the Piezoelectric Properties of High-Performance Ceramic Actuators	<b>Marco ABBATANGELO</b> Array of MOX Nanowires Gas Sensors for Wastewater Management	<b>Andreia DOS SANTOS</b> E-Skin Pressure Sensors Made by Laser Engraved PDMS Molds	<b>Julia KÖRNER</b> Effective Sensor Properties of a Novel co-Resonant Cantilever Sensor
12:30-14:00	Lunch break			
	<b>Photonic Sensors and Quantum Sensors</b>	<b>System Integration and Packaging, Reliability, Modelling and Simulation</b>	<b>Bio(medical) Sensors, Devices and Microfluids</b>	<b>Piezoelectric, Dielectric, Capacitive and Magnetic Sensors</b>
	Invited Talk - ID 7575	Invited Talk - ID 7587	Invited Talk - ID 7576	Invited Talk - ID 7583
14:00-14:30	<b>Jean-Michel GÉRARD</b> Advanced Superconducting Nanowire Single Photon Detectors for Photonic Quantum Technologies	<b>Andy MILLER</b> 3D Heterogeneous Integration - Enabling Functionality Improvements Through Advanced Packaging	<b>Jens DUCRÉE</b> Efficient Development of Microfluidic Solutions for Bioanalytical 'Point-of-Use' Testing Towards High-Technology-Readiness Levels - a Platform-Based Design-for-Manufacture Approach	<b>Werner MAGNES</b> Development of Space Magnetometers in Austria
	Contributed Talk - ID 7071	Contributed Talk - ID 7150	Contributed Talk - ID 7482	<b>Chemical Sensors and Sensors for Food Industry</b>
14:30-14:50	<b>Reyhaneh JANNESARI</b> Narrow-Band Thermal Photonic Crystal Emitter for Mid-Infrared Applications	<b>Philip SCHMITT</b> A Micromechanical Binary Counter with MEMS-Based Digital-to-Analog Converter	<b>Martin SMOLKA</b> High Throughput Roll-to-Roll Production of Microfluidic Chips	Contributed Talk - ID 7164
	Contributed Talk - ID 7067	Contributed Talk - ID 7440	Contributed Talk - ID 7406	<b>Eduardo BRAS</b> Development of a Point-of-Care Platform for Plant Health Assessments: a Microfluidic Approach
14:50-15:10	<b>Juan WANG</b> Microfluidic Construction of Hierarchically Composite Superballs for Sensing Application	<b>Gabriele BOSETTI</b> Reliable Compact Models for the Investigation of Acoustic High-Frequency Effects in MEMS Transducers	<b>Martin OELLERS</b> Novel Design of Additively Manufactured Micromixer in a microchannel Comprising Mounting and Sealing Elements	Contributed Talk - ID 7398
	Contributed Talk - ID 7318	Contributed Talk - ID 7327	Contributed Talk - ID 7238	<b>Maria MORHAMMER</b> Flow Injection Analysis with Microdialysis Probes Enable Minimally Invasive and Dynamic H <sub>2</sub> O <sub>2</sub> Measurements
15:10-15:30	<b>Zhi-Mei QI</b> Gold-Silver Alloy Film Based Colorful SPR Imaging Sensor with High Sensitivity for Quantitative Chemical and Biological Detection	<b>Henry SCHMIDT</b> Reduced Order Component & System Level Modelling for Fluid-Solid Interactions in Complex MEMS Devices	<b>Senol MUTLU</b> Integration of Paper Based Electro-Osmotic Pumps to Continuous Microfluidic Channels	Contributed Talk - ID 7020
	Contributed Talk - ID 7273	Contributed Talk - ID 7065		<b>Esther TANUMHARDJA</b> Ruthenium Oxide Ph Sensing for Organs-on-Chip Studies
15:30-15:50	<b>Jan GÜLINK</b> Ingan/GaN nanoLED Arrays As a Novel Illumination Source for Biomedical Imaging and Sensing Applications	<b>Mourad ELSOBKY</b> Ultra-Thin Sensor Systems Integrating Silicon Chips with on-Fail Passive and Active Components		Contributed Talk - ID 7074
				<b>Inci BOEHME</b> Understanding the Sensing Mechanism of Rh <sub>2</sub> O <sub>3</sub> Loaded In <sub>2</sub> O <sub>3</sub>
15:50-16:30	Coffee break			
	<b>Photonic Sensors and Quantum Sensors</b>	<b>System Integration and Packaging, Reliability, Modelling and Simulation</b>	<b>Micro- and Nanofabrication Technologies</b>	<b>Chemical Sensors and Sensors for Food Industry</b>
	Contributed Talk - ID 7140	Contributed Talk - ID 7471	Contributed Talk - ID 7174	Contributed Talk - ID 7263
16:30 - 16:50	<b>Christian RANACHER</b> Numerical Investigations of Infrared Slot Waveguides for Gas Sensing	<b>Michael HAUB</b> Novel Design of an Extremely Miniaturized Accelerometer Based on Quantum Tunnelling Effect	<b>Daniel PRADES</b> Efficient Self-Heating in Nanowire Sensors: Prospects for Very-Low Power Devices	<b>Tony GRANZ</b> UV-Led Photo Activated Room Temperature NO <sub>2</sub> Sensors Based on Nanostructured ZnO/AlN Thin Films
	Contributed Talk - ID 7569	Contributed Talk - ID 7052	Contributed Talk - ID 7531	Contributed Talk - ID 7170
16:50-17:10	<b>Vedran BUDINSKI</b> Miniature Twist/Rotation Fabry Perot Sensor Based on a Four-Core Fiber	<b>Daniil ANISIMOV</b> Intellectual thermoconductometric Unit Based on Aerosol Printed Ceramic MEMS Sensor for the Measurement of	<b>Andrey KRAVCHENKO</b> Silicon-on-Nothing Micro Pirani-Gauge for Interior-Pressure Measurement	<b>Andrey KALINICHEV</b> Ion-Selective Optical Sensors: a New Look at Well-Established Techniques of Signal Acquisition
	Contributed Talk - ID 7093	Contributed Talk - ID 7134	Contributed Talk - ID 7241	Contributed Talk - ID 7146
17:10-17:30	<b>Ivan RYGER</b> MEMS Non-Absorbing Electromagnetic Power Sensor Employing the Effect of Radiation Pressure	<b>Cécile GHOUILA-HOURI</b> Robust Colorimetric Micro-Sensor for Aerodynamic Applications and Flow Control	<b>Nikolas GAIO</b> Versatile and Automated 3D Polydimethylsiloxane (PDMS) Patterning for Large-Scale Fabrication of Organ-on-Chips (OOC)	<b>Laura ENGEL</b> Colorimetric Detection of Hydrogen Sulphide in Ambient Air
	Contributed Talk - ID 7328	<b>Advanced Functional Materials for Sensing and Actuating</b>	Contributed Talk - ID 7407	Contributed Talk - ID 7288
17:30-17:50	<b>Elnaz AFSHARIPOUR</b> A 3-Degree-of-Freedom MEMS Mirror with Controllable Static and Dynamic Motion for Beam Steering	<b>Hendrik SCHLICKE</b> Cross-Linked Nanoparticle Membranes for Microelectromechanical Chemical Sensors and Pressure Sensors	<b>Levar GOOSSEN</b> Ultra-Thin Integrated ALD Alumina Electron-Transparent Windows for TEM Nanoreactor Applications	<b>Ismael BENITO-ALTAMIRANO</b> Machine-Readable Pattern for Colorimetric Sensor Interrogation
	Contributed Talk - ID 7358		Contributed Talk - ID 7278	
17:50-18:10	<b>Mahmoud EL-SAFOURY</b> Resonant Photoacoustic Gas Monitoring of Combustion Emissions		<b>Steffen BORNEMANN</b> Structural Modifications in Free-Standing Ingan/GaN LEDs After Femtosecond Laser Lift-Off	