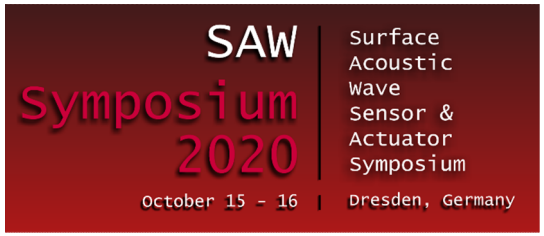
SAW Sensor & Actuator Symposium 2020. Live in Dresden. Followed from all over the world.

October 15+16, 2020 in Dresden, Germany - organized by SAWLab Saxony, Silicon Saxony, SAW Components

SAW Symposium 2020 topic areas:	
I:	Design, concepts and materials for SAW-based sensors and actuators
II:	SAW sensors for physical, chemical, biological applications and gases
III:	SAW-based actuators, atomizers and microfluidics
IV:	Industrial applications and deployments of SAW



SAW Symposium 2020 Program

Thursday, October 15, 2020

08:30	**Registration (with coffee)**		
10:00	**Opening**	Hagen Schmidt	SAWLab Saxony

10:10	***Session 1: Design, concepts and materials for SAW-based sensors and actuators***			
10:10	Metallization Systems for High Temperature Surface Acoustic Wave Sensor Devices	Marietta Seifert	IFW Dresden	I
10:30	Temperature measurement and position with wireless SAW sensors on Piezoelectric-On-Insulator substrates	Gabrielle Aspar	Frec|n|sys	I
10:50	Advanced ferroelectric Li(Nb,Ta)O3 crystals: growth, structure, and acoustic properties	Dmitry Roshchupkin	Inst. of Microelectr. Techn. and High-Purity Materials; RAS	I
11:10	Surface Acoustic Wave resonators for Wireless Sensor Network applications in the 433.92 MHz ISM band	Evangelos Moutoulas	University of Southampton	I
11:30	Development of a ceramic based packaging concept for sensors up to 600 °C	Lars Rebenklau	FhG IKTS	I

12:00	**Lunch**		

13:00	***Session 2: Design, concepts and materials for SAW-based sensors and actuators***			
13:00	Simulation of AIScxN Thin film SAW devices	Sergio Gutierrez	IMTEK- University of Freiburg	I
13:20	SAW Tags with the Layered Structure of SiO2/Al/LiNbO3 for High Temperature Application	Ruchuan Shi	Shanghai Jiao Tong University	I
13:40	Optimization of LiNbO3 based SAW sensors for high temperature applications	Jordan Maufay	Université de Lorraine	I
14:00	***Session 3: SAW-based actuators, atomizers and microfluidics (part I)***			
14:00	Numerical and experimental consideration of acoustic wave propagation in liquid/glass/liquid/piezoelectric structure for digital microfluidic systems	Jun Kondoh	Shizuoka University	III
14:20	Volumetric velocity and temperature measurements in SAW-based microfluidic devices	Jörg König	TU Ilmenau	III
14:40	Standing surface acoustic wave (sSAW) nebulization at controlled air humidity	Mehrzad Roudini	IFW Dresden	III
15:00	**Coffee break**			
15:20	***Session 3: SAW-based actuators, atomizers and microfluidics (part II)***			
15:20	**KEYNOTE: A fourth type of acoustic streaming mechanism supports the dynamic wetting of nanochannels in the presence of surface acoustic waves**	**Ofer Manor**	**Technion - Israel Institute of Technology**	**III**
16:00	Surface Acoustic Wave (SAW) based Acoustofluidic Blood Cell Sorting	Melanie Colditz	IFW Dresden	III
16:20	In vitro Rayleigh-SAW stimulation of osteoblasts	Denis Beyssen	Institut Jean Lamour , Université de Lorraine	III
16:40	Role of Diffraction in Surface Acoustic Waves Driven Microfluidic systems	Armaghan Fakhfouri	IFW Dresden	III
17:00	***Session 4: Industrial applications and deployments of SAW***			
17:00	**KEYNOTE: Harsh Environment Applications of Passive SAW Sensing**	**Joseph Iannotti**	**GE Global Research Center**	**IV**
19:00	**Social event & Networking dinner (details t.b.a.)**			

Friday, October 16, 2020

08:00	**Registration**			
09:00	***Session 5: Industrial applications and deployments of SAW***			
09:00	Investigation of wireless propagation for industrial application of SAW sensors near metallic structures	Niels Neumann	TU Dresden	IV
09:20	Automotive Test Bench Measurements with SAW Sensor Systems	René Fachberger	sensideon GmbH	IV
09:40	**KEYNOTE: SAW Temperature Measurement in Laboratory Applications**	**Daryl Williams**	**Surface Measurement Systems Limited**	**IV**
10:20	**Session 6: Poster presentation & Industrial Exhibition with coffee**			
11:20	***Session 7: SAW sensors for physical, chemical, biological applications and gases***			
11:20	**KEYNOTE: Magnetic SAW Sensors : State of the art, trends and potential applications**	**Omar Elmazria**	**Université de Lorraine**	**II**
12:00	High temperature sensor exploiting hybrid BAW/SAW thin piezoelectric film transducer	Vladimir Pashchenko	Silicon Austria Labs	II
12:20	Sensing Small Magnetic Fields with Surface Acoustic Waves	Viktor Schell	Kiel University	II
12:40	**Lunch**			
14:00	***Session 8: SAW sensors for physical, chemical, biological applications and gases (part I)***			
14:00	SAW sensors for extreme operating conditions	Sergey Sakharov	Ltd Company «BUTIS»; JSC «FOMOS-MATERIALS»	II
14:20	Strain-Engineered K0.7Na0.3NbO3 Thin Film SAW Sensors for Gas-Phase Deposition Processes and Bio Applications	Roger Wördenweber	Forschungszentrum Jülich	II
14:40	**Coffee break**			

15:00	***Session 8: SAW sensors for physical, chemical, biological applications and gases (part II)***			
15:00	New geometry of SAW stress sensor for differential measurements	Alexandre Clairet	Frec|n|sys	II
15:20	Influence of parasitic modes in SAW resonators on the measurement accuracy of wireless time domain sampling readers	Fabian Lurz	Technische Universität Hamburg	II
16:00	**Closing session**			
10:00	***Contributions to Poster Presentation (Session 6, all topics)***			
	A highly controllable of localized surface plasmon resonance using SH-SAW device	Teguh Firmansyah	Shizuoka University	I
	Scanning Electron Microscopy and X-Ray Diffraction Study of Surface Acoustic Wave Propagation in LiNbO3 and LiTaO3 Crystals	Dmitry Roshchupkin	Inst. of Microelectr. Techn. and High-Purity Materials; RAS	I
	Advantages of RFID systems on BAW tags	Viktor Nikolaevcev	Saratov State University	I
	SAW-PnC-Sensor	Ralf Lucklum	TU Magdeburg	I
	Temperature Measurement Ranges Evaluation of Wireless SAW Resonant Sensors Using Equivalent Circuit Model	Yang Yang	Shanghai Jiao Tong University	I
	Acoustic loss in CTGS piezoelectric single crystals	Andrei Sotnikov	IFW Dresden	I
	High-temperature stability of electrical and electromechanical properties of LiNb0.88Ta0.12O3	Yuriy Suhak	Clausthal University of Technology	I
	SAW-based 2D single cell patterning: Measurement of position and temperature of trapped particles	Zhichao Deng	TU Ilmenau	III