



PROGRAM

SURFOCAP'17

3rd INTERNATIONAL WORKSHOP
ON FUNCTIONALIZED SURFACES
FOR SENSOR APPLICATIONS

BESANÇON - FRANCE
MAY 30th - 31th, 2017

events.femto-st.fr/surfocap-2017

TUESDAY, MAY 30th

CHEMICAL SENSORS, FUNCTIONALIZED SURFACES,
NANOSTRUCTURED SURFACES

8:45 – 9:15	PARTICIPANTS WELCOMING	
9:15 – 9:40	OPENING SESSION	
9:40 – 10:25	INVITED SPEAKER G. Sberveglieri University of Brescia - Italy	PLENARY CONFERENCE Functionalization of Metal Oxide NWs for Chemical Sensors and Electronic Noses
10:25 – 10:45	M. Hijazi SPIN EMSE Saint-Etienne - France	Modified SnO ₂ -APTES gas sensor for selective ammonia detection at room temperature
10:45 – 11:20	COFFEE BREAK & POSTERS SESSION	
11:20 – 11:40	E. Genin University of Bordeaux - France	Smart click-reactive self-assembled nanofilms onto silica surface for biotechnology applications
11:40 – 12:00	F. Lagarde University of Lyon - France	Combining electrospinning and vapor-phase polymerization for the production of core-shell nanofibers and biosensors application
12:00 – 14:00	LUNCH BREAK	
14:00 – 14:45	INVITED SPEAKER A. Hierlemann University of Zurich - Switzerland	PLENARY CONFERENCE CMOS-Based Monolithic Microelectrode Systems for Subcellular-Resolution Electrophysiology and Sensor Applications
14:45 – 15:05	C. Chaix University of Lyon - France	Robust Electrografting on Self-Organized 3D Graphene Electrodes
15:05 – 15:25	P. Mailley CEA Grenoble - France	Nucleofuge chemistry for spontaneous grafting at hydrogenated diamond surfaces
15:25 – 16:00	COFFEE BREAK & POSTERS SESSION	
16:00 – 16:45	INVITED SPEAKER A. Palmero University of Sevilla - Spain	PLENARY CONFERENCE Fundamentals and Applications of Highly Porous Coatings Grown by Vacuum and Plasma-Assisted Techniques at Oblique Angles
16:00 – 17:05	M. Arab Pour Yazdi University of Bourgogne Franche-Comté - France	Dodecane sensor based on perovskite LaCoO ₃ nanowires: From material synthesis to electrical and gas sensing properties
17:05 – 17:25	M. Arab University of Toulon - France	Shape and size effect of nanostructured cobalt ferrite on NO ₂ sensing properties

WEDNESDAY, MAY 31th

BIO-SENSORS, CHEMICAL SENSORS,
FUNCTIONALIZED SURFACES, NANOSTRUCTURED SURFACES

09:20 – 10:05	INVITED SPEAKER F. J Del Campo University of Barcelona - Spain	PLENARY CONFERENCE Electrochromic biosensors: new opportunities for electrochromic materials beyond smart glass and displays
10:05 – 10:25	F. Morisot University of Grenoble - France	Toward an eco-friendly DNA grafting process based on epoxy silane functionalization
10:25 – 11:00	COFFEE BREAK & POSTERS SESSION	
11:00 – 11:20	C. Théron University of Paris-Saclay - France	Selective detection of O ₃ and NO ₂ with specific filters
11:20-11:40	A. Favard Universit of Aix-Marseille - France	Metal oxide BTEX sensor for the ppb level detection
11:40 – 12:00	H. Debeda University of Bordeaux - France	Printed transducers using nanomaterials for gas sensing
12:00 – 14:00	LUNCH BREAK	
14:00 – 14:20	B. Wacogne University of Bourgogne Franche-Comté - France	Sensitivity enhancement of a fluorescent pH sensor by double silanization of the sensing surface
14:20 – 14:40	T. Leblois University of Bourgogne Franche-Comté - France	Resonant biosensor characterization: temperature, pH and salt concentration dependence
14:40 – 15:00	CLOSING SESSION	

S. Bernardini et al. sandrine.bernardini@im2np.fr	UV-enhanced Ozone sensing response of Al-doped Zinc Oxide Nanocrystals at Room Temperature
X. Xu et al. xiaolong.xu@femto-st.fr	Reactive co-sputtering of tungsten oxide thin films by glancing angle deposition for gas sensors
M. Mateos et al. mickael.mateos@u-bourgogne.fr	Electrochemical deposition of aniline derivatives for conductometric gas sensors
R. Leghrib r.leghrib@uiz.ac.ma	Synthesis and characterization of self-aligned metal oxide spun nanofibers for gas sensing applications
J.Y. Rauch et al. jyves.rauch@femto-st.fr	Functionalized patterned sensors on top of optical fibers
N. Ktari et al. rafik.kalfat@gmail.com	Imprinted polypyrrole polymer based SAW sensors for antibiotic detection
Z. Mazouz et al. rafik.kalfat@gmail.com	Ionic imprinted polypyrrole polymer based sensors for lead ions' detection
F.G. Cougnon et al. florian.cougnon@ugent.be	Embedded thin-film thermocouples for self-sensing composite materials
F. Fioresi et al. flavia.alves-mendonca-fioresi@etu.univ-rouen.fr	Potentialities of diazonium salts for SPR applications
B. Gauthier-Manuel et al. bruno.wacogne@univ-fcomte.fr	SNARF® functionalized surfaces for fluorescent pH sensors: how to simplify and avoid calibration procedures
M. Jedrusik et al. mjjedrusik@gmail.com	LaFeO ₃ layers as sensing electrode in electrochemical sensors
Z. Yu et al. zexin.yu@utbm.fr	Dodecane sensors based on zinc oxide films via solution precursor plasma spray with different microstructures
M. Vanotti et al. meddy.vanotti@femto-st.fr	Surface Acoustic Wave sensors for the detection of formaldehyde in indoor air

CONTACT

fberger@univ-fcomte.fr
jbsanche@univ-fcomte.fr

LOCATION

INSTITUT FEMTO-ST
15B AVENUE DES MONTBOUCONS
25030 Besançon
FRANCE



FINANCIAL SUPPORT



SUPPORTED BY

