

TUESDAY, MAY 30<sup>th</sup>

CHEMICAL SENSORS, FUNCTIONALIZED SURFACES,  
NANOSTRUCTURED SURFACES

|               |   |  |
|---------------|---|--|
| 8:45 – 9:15   | PARTICIPANTS WELCOMING  |  |
| 9:15 – 9:40   | OPENING SESSION   |  |
|               | <i>Chairman: M. Bouvet</i>  |  |
| 9:40 – 10:25  | <b>INVITED SPEAKER</b>  | <b>PLENARY CONFERENCE</b>  |
|               | G. Sberveglieri<br>University of Brescia - Italy                        | Functionalization of Metal Oxide NWs for Chemical Sensors and Electronic Noses   |
| 10:25 – 10:45 | M. Hijazi<br>SPIN EMSE<br>Saint-Etienne - France                        | Modified SnO <sub>2</sub> -APTES gas sensor for selective ammonia detection at room temperature                                    |
| 10:45 – 11:20 | COFFEE BREAK & POSTERS SESSION  |  |
|               | <i>Chairman: W. Boireau</i>   |  |
| 11:20 – 11:40 | E. Genin<br>University of Bordeaux - France                             | Smart click-reactive self-assembled nanofilms onto silica surface for biotechnology applications                                   |
| 11:40 – 12:00 | F. Lagarde<br>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   |  |
|               | <i>Chairman: V. Blondeau-Patissier</i>                                  |  |
| 14:00 – 14:45 | <b>INVITED SPEAKER</b>  | <b>PLENARY CONFERENCE</b>  |
|               | A. Hierlemann<br>University of Zurich - Switzerland                     | CMOS-Based Monolithic Microelectrode Systems for Subcellular-Resolution Electrophysiology and Sensor Applications                  |
| 14:45 – 15:05 | C. Chaix<br>University of Lyon - France                                 | Robust Electrografting on Self-Organized 3D Graphene Electrodes  |
| 15:05 – 15:25 | P. Mailley<br>CEA Grenoble - France                                     | Nucleofuge chemistry for spontaneous grafting at hydrogenated diamond surfaces   |
| 15:25 – 16:00 | COFFEE BREAK & POSTERS SESSION  |  |
|               | <i>Chairman: N. Martin</i>  |  |
| 16:00 – 16:45 | <b>INVITED SPEAKER</b>  | <b>PLENARY CONFERENCE</b>  |
|               | A. Palmero<br>University of Sevilla - Spain                             | 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<br>University of Bourgogne<br>Franche-Comté - France | Dodecane sensor based on perovskite LaCoO <sub>3</sub> nanowires: From material synthesis to electrical and gas sensing properties |
| 17:05 – 17:25 | M. Arab<br>University of Toulon - France                                | Shape and size effect of nanostructured cobalt ferrite on NO <sub>2</sub> sensing properties                                       |

WEDNESDAY, MAY 31<sup>th</sup>

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

|               |   |  |
|---------------|---|--|
|               | <i>Chairman: B. Lakard</i>  |  |
| 09:20 - 10:05 | <b>INVITED SPEAKER</b><br>F. J Del Campo<br>University of Barcelona - Spain | <b>PLENARY CONFERENCE</b><br>Self-powered biosensors and the role of electrochromic materials    |
| 10:05 - 10:25 | F. Morisot<br>University of Grenoble - France                               | Toward an eco-friendly DNA grafting process based on epoxy silane functionalization              |
| 10:25 - 11:00 | COFFEE BREAK & POSTERS SESSION  |  |
|               | <i>Chairman: A. Billard</i>   |  |
| 11:00 - 11:20 | T.H. Tran-Thi<br>University of Paris-Saclay - France                        | Selective detection of O <sub>3</sub> and NO <sub>2</sub> with specific filters                  |
| 11:20-11:40   | A. Favard<br>University of Aix-Marseille - France                           | Metal oxide BTEX sensor for the ppb level detection  |
| 11:40 - 12:00 | H. Debeda<br>University of Bordeaux - France                                | Printed transducers using nanomaterials for gas sensing  |
| 12:00 - 14:00 | LUNCH BREAK   |  |
|               | <i>Chairman: T.H. Tran-Thi</i>  |  |
| 14:00 - 14:20 | B. Wacogne<br>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<br>University of Bourgogne Franche-Comté - France                | Resonant biosensor characterization: temperature, pH and salt concentration dependence           |
| 14:40 - 15:00 | CLOSING SESSION   |  |