

International Workshop

On

Low-cost sensors and Microsystems for environment monitoring

Toulouse, France

May 20th-21st, 2019

<https://nanosen-aqm.sciencesconf.org/>

This workshop aims to **bring together** European **academic and industrial actors** in the field of **air and water quality monitoring**.

These 2 days are dedicated to highlight **the state of the art in miniaturized sensors** (micro- and nanotechnologies) for pollutants detection in air and in water, and/or **associated embedded microsystems**, both in academic prototypes and commercial products. The existing **field measurement campaigns** (urban and rural sites) will also be addressed. Special emphasis will be put on improvements for addressing the issues that generate measurement errors (calibration, cross-sensitivity, aging ...).

Topics :

- ✓ Improvement of sensitive materials
- ✓ Gas micro- and nanosensors
- ✓ Chemical microsensors in liquid phase
- ✓ Communicating embedded microsystems
- ✓ Calibration and cross-sensitivities (selectivity)
- ✓ Trends on low-cost sensors deployment
- ✓ Field measurement campaigns and current standards

Registration Fees

	Early bird (before May 3 rd 2019)	Full rates (after May 3 rd 2019)
Students	190 €	250 €
Academic	280 €	335 €
Non Academic	385 €	445 €

Key Dates!

- **February 15th, 2019:** Opening call for abstracts and announcement of confirmed invited speakers and scientific committee
- **April 30th, 2019:** Deadline for abstract submission
- **May 2nd, 2019:** Notification of acceptance
- **May 3rd, 2019:** Deadline for early bird registration
- **May 13th, 2019:** Closing registrations

Confirmed invited speakers:

- ✓ **Eduard LLOBET** (Full Professor, Univ. Rovira i Virgili, Tarragona, Spain):
"2D nanomaterials beyond graphene: opportunities and challenges for selective gas sensing"
- ✓ **Laurent SPINELLE** (Engineer R&D, INERIS Pôle CARA- Unit ASUR, France):
"Sensors and air quality: an assessment of what can we expect today from low-cost sensors"
- ✓ **Giorgio SBERVEGLIERI** (Professor Emeritus, Univ. of Brescia, Italy; President of NANO SENSOR SYSTEMS SRL):
"Nano MOX chemical sensors applied to agri-food field"
- ✓ **Jean-Christophe MIFSUD** (President and founder of RUBIX SI, Toulouse, France):
"Sensors selectivity versus sensors orthogonality: The human being as the ultimate example of sensors fusion"
- ✓ **Adrian ARFIRE** (Metrology Engineer, Airparif, France):
"A Holistic Approach to Low-Cost Air Quality Sensor Evaluation: The AIRLAB Microsensors Challenge"

Scientific committee:

Khalifa Aguir (CMC2, IM2NP, Marseille, France)

Marcel Bouvet (CMC2, ICMUB, Dijon, France)

Hélène Débéda (CMC2, IMS, Bordeaux, France)

Esther Hantanon (NanoSen-AQM, CSIC-ITFI, Madrid, Spain)

Philippe Menini (NanoSen-AQM, LAAS, Toulouse, France)

Christophe Pijolat (CMC2, EMSE, St-Etienne, France)

Edouardo Pinilla-Gil (Nanosen-AQM, IACYS, Badajoz, Spain)

Lionel Presmanes (Nanosen-AQM, CIRIMAT, Toulouse, France)

Jean-Paul Viricelle (CMC2, EMSE, St-Etienne, France)

Workshop program overview:

Monday, May 20th, 2019

08:45-09:30 → Registration opening, welcome
09:30-10:15 → Workshop opening
10:15-11:00 → Keynote
11:00-12:30 → Improvement in sensing materials (Sess.1)
12:30-14:00 → Lunch
14:00-16:00 → Micro-nano gas sensors / trends on low cost sensors (Sess.2)
16:00-17:00 → Poster & coffee break
17:00-19:00 → (bio)Chemical sensors in liquid phase (Sess.3)
20:30-23:00 → Gala dinner

Tuesday, May 21st, 2019

08:30-10:30 → Embedded microsystems (Sess.4)
10:30-11:30 → Poster & coffee break
11:30-13:30 → Calibration and cross sensitivity (Sess.5)
13:30-14:30 → Lunch (buffet)
14:30-16:15 → Field measurements (Sess. 6)
16:15-16:30 → Closing

Sponsors/Exhibitors:



Workshop Venue: MERCURE Hotel Compans

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