

N°2

March 2017



The Nanosafety Platform booth during Nanosafe 2016

## Summary

- Nanosafe proceedings
- The Nanosafety Workshop 2017
- Focus on occupational exposure measurement
- Agenda

*"We have accepted to do some workstation measurements because we thought it would allow us to know and improve our working conditions. The first step was to make sure our work was done in good and safe conditions. Thus, we need to measure and analyze all the results throughout our manufacturing process. After the measurement campaign, some recommendations were made and we were able to take the best decisions about our activity and its process."*

*I would like to thank the Nanosafety platform team for their responsiveness and friendly attitude. So I can only encourage companies to work with this platform."*

*Laurent Gabert - NANOCERAM*

## Nanosafe 2016

The fifth edition of Nanosafe Conference was a great success.

All oral presentations are now available to everyone on the conference website [www.nanosafe.org](http://www.nanosafe.org)

The Local Organizing Committee also offered the possibility for each authors to publish a paper on an open access Journal, **Conference Series by IOP**. Currently, papers received are under reviewing by the scientific committee of the conference.

The objective is to put online the papers before the end of the first quarter of the year.

Contact: [nanosafe2016@cea.fr](mailto:nanosafe2016@cea.fr)

## Edito

In 2017, the Nanosafety Platform will growing in new projects in order to respond to emerging societal preoccupations. Urban pollution is one of the most illustrative examples. The PNS team will continue to set up innovative solutions to protect employees, consumers and the Environment against small size particles in terms of both individual and collective protections and through the safe by design concept, thanks to its abilities in nanomaterial synthesis.

PNS is also working on organizing the first edition of the Nanosafety Workshops which will be held next November.

We hope this second PNS NEW'S issue will bring you interesting information !

Gaëlle Charlier, editor in chief

## The Nanosafety Workshops 2017

*The Nanosafety Platform is organizing the 16<sup>th</sup> of November 2017, the first one-day session of "The Nanosafety Workshops 2017".*

Formerly called "The Nanosafety Meetings" (organized in 2012 and 2013), this new event will be scheduled every two years, alternately with the International Conference Nanosafe.

This meeting will enable the various stakeholders to meet and discuss about their activities and field of researches.

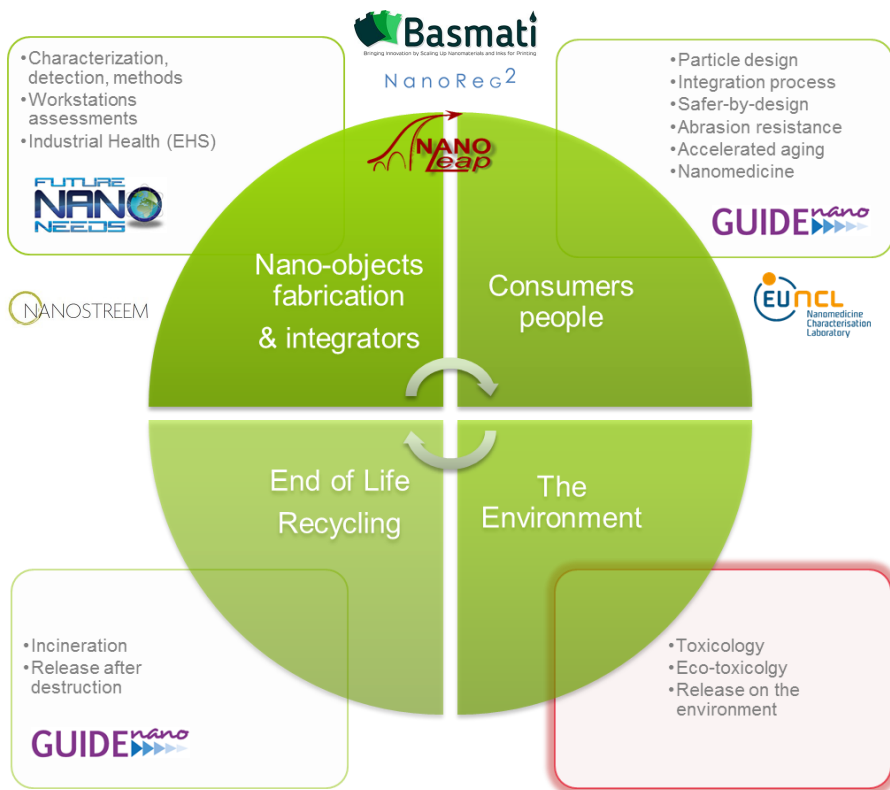
Based on a participative mode, a speed-meeting and some practical & technical workshops will be organized during this daytime. For each attendees, this meeting will also represent the opportunity to visit the Nanosafety Platform and to get more specific information about its wide range of activities.

A unique rate will be proposed to each attendees. More information about the detailed program and the registration process will be available very shortly but please, save the date already !

Contact: [ateliers2017@cea.fr](mailto:ateliers2017@cea.fr)

## European Projects

Since 2004, the PNS is involved in various European projects which started with the lead of the very first project on Nanosafety: the so-called Nanosafe project.



The PNS is looking for both industrial and academic partners in the field of toxicology and ecotoxicology to launch new projects.

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# FOCUS ON...



The Nanosafety Platform workstation measurement laboratory



## Occupational exposure measurement

*Since 2009 in the frame of the french Nano-Innov program, the Nanosafety Platform developed a huge and unique knowledge on nanoparticles process monitoring. More than 360 workstations have been investigated in France and Europe, which makes the Nanosafety Platform probably the most experienced facility in Europe, and likely worldwide, in that field.*

This process is based on a three steps offer in order to answer as well as possible to the employees and management expectations and questions related to the exposure issues, whatever the kind of structure and the activities fields: R&D laboratories, Universities or Industries.

These three interdependent milestones are the following:

### SURVEY OF WORKSTATIONS

The aim is to establish before the measurement campaign, a survey report including all technical aspects (first measurements, kind of operation, nature of the product handled, etc.), and also an inventory of the good practices in occupational health (PPE, CPE, operating modes, etc.). This report is performed by the complementary expertises of one specialist in nano-aerosols measurements and one nano-EHS expert, both of them from the Nanosafety Platform.

### MEASUREMENT CAMPAIGN

Based on the survey report, an expert team in nano aerosols performs the measurements and samplings at the workstations.

All the operations are followed and listed to link the potential emission to a specific process phase at the customer site. The aim is to deliver an expertise to provide a general picture of the workstation and its environment in terms of exposure risk.

### RESTITUTION VISIT

This last step allows to share the workstation assessment in terms of exposure risk including comparisons with the large PNS data and EHS recommendations.

*These three steps give a global view of the risks and provide EHS recommendations and some workstation improvement axes.*

*Thus, the Nanosafety Platform supports the Responsible use of nanomaterials in the industry and at laboratories.*

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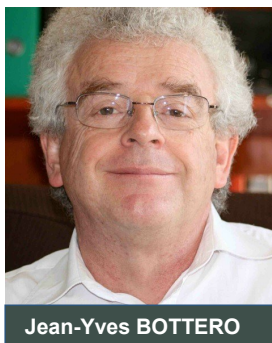
# PORTRAIT...

## Three experts at the PNS

The Nanosafety platform relies on the expertise and networking of three experts to achieve its goals and increase its notoriety. These three experts each have a specific field of competence.

### DR. JEAN-YVES BOTTERO

Dr Jean-Yves Bottero is CNRS Research Director Emeritus at CEREGE (CNRS, AMU, IRD, INRA) and former director of Labex SERENADE (Safer Ecodesign Research and Education Applied to Nanomaterial Development). He is also leader of the GDRI I-CEINT (CNRS/DUKE Univ) which concerns the environmental impacts of nanotechnology. He has an appointment as adjunct Professor at DUKE Univ. in the Department of Civil and Environmental Engineering. He is also an OECD expert regarding the end of life of nano-by-products particularly considering the effects on the effluent treatment in the WWTP and agriculture applications.



Jean-Yves BOTTERO

### DR. MICHEL POURPRIX

Dr. Michel Pourprix has a broad range of research experience in aerosol, particle science and filtration technologies. Author of 16 patents, he has developed several widely used commercial nanoparticle measurement instruments. In support to the PNS researchers, he gives an expertise on all the PNS projects in connection with this field, including innovative concepts on NP detection and characterization.



Michel POURPRIX

### DR. DANIEL BERNARD

Dr. Daniel Bernard is graduated from the ENSCP-Chimie Paris-Tech. He is heavily involved in the Nanotechnology and Nanomaterials standardization, as chairman of the AFNOR CN X457, convenor of the CEN TC 352/ HSE Working Group, and head of the French delegation at the ISO TC 229. He brings to PNS its expertise in European commission relationship, industrial safety, responsible development of nanomaterials, including regulation, ethical and societal dialog.



Daniel BERNARD

## CONTACT & ADVERTISING

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# AGENDA

## SRA Policy Forum

03/01/2017 - 03/03/2017

Venice, Italy

[www.sra.org/riskgovernanceforum2017](http://www.sra.org/riskgovernanceforum2017)

## EuroNanoForum 2017

06/21/2017 - 06/23/2017

La Valetta, Malta

[www.euronanoforum2017.eu](http://www.euronanoforum2017.eu)

## Nanotech France 2017

06/28/2017 - 06/30/2017

Paris, France

[www.setcor.org/conferences/Nanotech-France-2017](http://www.setcor.org/conferences/Nanotech-France-2017)

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*Consult on the INSTN website, all the training courses in relation with nanosafety*

[www.instrn.cea.fr](http://www.instrn.cea.fr)

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