
Invitation to the 2nd NanoDefine Industry-focused Workshop

“Measurement and classification of nanomaterials according to the EU definition”

24 October 2017, Frankfurt/Main, Germany

The European FP7 **NanoDefine** project is organizing again an industry-focused Workshop on 24 October 2017 at “DECHEMA” in Frankfurt/Main, Germany. Main purpose of this technology transfer event is to demonstrate the newly developed particle size-related measurement tools and their practical applicability to industrial end-users, who have to classify their materials, formulations and products according to the EC recommendation on the definition of a nanomaterial (2011/696/EU).

In the last four years, **NanoDefine** has tested, developed and validated key particle-sizing methods, techniques, instruments and software, and established a 2-tiered measurement approach based on these tools and consisting of cost-effective and rapid screening (tier 1) and more in-depth confirmatory methods (tier 2) for more complex materials, such as products. As one major outcome of the project, an eTool, the “NanoDefiner” was developed to guide users to reliably group materials and determine whether a material or product is or contains nano, or not.

We would like to invite you to this one-day workshop to meet our experts, to share experiences, learn from each other and to find answers to the following questions:

- How to match the analytical challenge caused by the EU Nano-Definition?
- How to handle the wide diversity and complexity of commercially relevant products and materials that have to be classified according to this definition?
- How to meet the need of industry for quick and unambiguous measurement tools?

The workshop will be organized in 4 sessions: 2 morning sessions broadly introducing into the background, concept and achievements of the NanoDefine project, and 2 afternoon sessions with practical demonstrations of the developed tools and techniques and hands-on discussions between experts and workshop participants.

REGISTER and SAVE THE DATE!

Registration is free of charge and can be done by sending an email to events@nanodefine.eu together with the following information:

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- *Your name, position, phone and email address:*
 - *Your organization name and address:*
 - *Type of your organization (e.g., industrial/instrument manufacturer, branch organization, regulatory body, policy/decision maker, research institute, consultant etc.):*
 - *Type of materials/instruments you manufacture or develop (if applicable):*

- *Your specific interest in this meeting:*
- *Practical experiences and problems you want to discuss:*
- *Other topics and questions you want to address:*

As places are limited, registration will be accepted according to “first come, first served”. More information at: www.nanodefine.eu.

WORKSHOP VENUE: DECHEMA, Theodor-Heuss-Allee 25, 60486 Frankfurt am Main

How to get there: <http://dechema.de/en/anfahrt.html>.

THE PROGRAM

10:00-10:30 Coffee and registration

OPENING AND INTRODUCTION SESSION

10:30-10:35 Opening
Rudolf Reuther, NOMI

10:35-10:40 Welcome
Heike Liewald, VdMi and Martin Reuter, VCI

10:40-10:50 NanoDefine - background, goals, challenges and outcome
Hans Marvin, RIKILT

10:50-11:00 Experiences and needs of industries to meet the analytical challenges of the EU
Nano-Definition
Uwe Hempelmann, Lanxess tbc

SESSION 1: PRESENTATIONS

11:00-11:15 Scope of applicability of widely available methods to identify nanomaterials in industrial real-life samples
Frank Babick, TUD

11:15-11:30 Sampling and sample preparation is critical both for substances and products
Katrin Löschner, Denmark Technical University

11:30-11:45 Coffee break

11:45-12:00 Screening methods for rapid and cost-effective identification of nanomaterials as substances (powders, suspensions) or in products (formulations)
Michael Stintz, Technical University of Dresden tbc

12:00-12:15 Confirmatory methods to identify nanomaterials in complex real-life samples (industrial / consumer products)
Frank von der Kammer, University of Vienna

12:15-12:30 The challenge of validating methods for nanoparticle analysis
Robert Koeber, JRC

- 12:30-12:45 The Decision Flow Scheme and the NanoDefiner e-Tool: a practical guide to select the most appropriate measurement method for material classification
Hubert Rauscher, JRC-IHCP
- 12:45-13:00 Case studies to explore the applicability of developed methods and decision-support-system to industrial substances
Wendel Wohlleben, BASF
- 13:00-14:00 Poster lunch buffet

SESSION 2: DEMONSTRATIONS (parallel sessions)

- 14:00-14:30 Wrap up of Session 1 and introduction to Session 2
Rudolf Reuther, NOMI
- 14:30-16:00 Demonstration of developed methodologies and materials (by poster, hands-on and video/one-pager presentation)

Screening methods:

- Analytical centrifugation (AC): Michael Stintz, TUD (poster) tbc
- Particle tracking analysis (PTA): Phil Vincent, Malvern (hands-on demonstration)
- Single particle inductively coupled plasma mass spectrometry (spICPMS): Ruud Peters, RIKILT (video clip)
- High Resolution Mobility Spectrometer (HRMS): Sylvia Lopez, RAMEM (video clip)
- Volume specific surface area (VSSA) by BET: Hubert Rauscher, JRC (video clip)

Confirmatory methods

- Auto EM toolbox: Ralf Kaegi, EAWAG (hands-on demonstration) tbc
- Electrospray deposition prototype: Silvia Lopez, RAMEM (hands-on demonstration)
- Field flow fractionation and multi-element detection (FFF-MED): Frank von der Kammer, University of Vienna (video clip)

- The “NanoDefiner” e-Tool with manual and decision flow scheme: Hubert Rauscher, JRC and Christoph Friedrich, FHD (hands-on demonstration)

- 16:00-16:30 Coffee break

FINAL SESSION

- 16:30-16:45 Towards a user-friendly measurement and classification strategy for nanomaterials
Martin Reuter, VCI
- 16:45-17:00 Wrap up and final discussion
Rudolf Reuther, NOMI
- 17:00 End of workshop