

## NanoChOp workshop

Workshop focusing on the challenges, achievements and future impact of the EMRP Joint Research Project NanoChOp

28<sup>th</sup> May 2015

LGC, Queens Road, Teddington, Middlesex, TW11 0LY, UK

The properties of nanomaterials are increasingly being used by companies to overcome scientific and technical challenges. These nanomaterials now impact all areas of human life from medical devices and solar cells through to paints, sunscreens and cosmetics.

Nanomaterials are usually characterised for their chemical, physical and optical properties in their pure form or in simple idealised matrices. However, when nanomaterials interact within complex systems their properties can change significantly affecting their functionality and behaviour, and creating a potential risk to human health.

The NanoChOp project has brought together EU research organisations to address this issue. Using their combined expertise, the project partners have developed measurement techniques which can be used to directly characterise nanomaterials in complex matrices and be further developed as underpinning techniques to support the general nanotechnology community.

The NanoChOp workshop will focus on the achievements and long-term impact of the project while seeking to engage stakeholders in a discussion of the remaining challenges for the use of nanoparticles in real life applications.

Speakers at the workshop will include Dr **Stefan Weigel**, RIKILT - Wageningen UR, Netherlands, **Dr Alex Price**, BSI, UK and **Nick Boley**, Government Chemist Programme, LGC, UK. The NanoChOp project partners will also present on the project key outcomes.

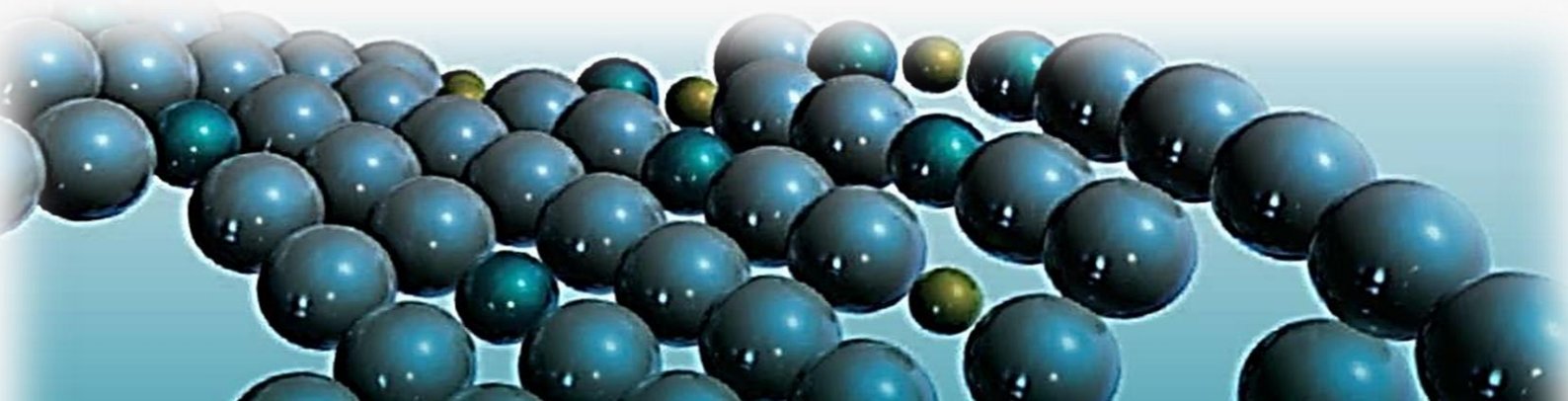
The workshop will provide opportunities for discussion and networking.

### Who should attend

The workshop is aimed at stakeholders in the nanotechnology industries, standardisation organisations, research institutions and academia who have an interest in the properties and behaviour of nanomaterials when used within complex systems, and the methodologies used to characterise them.

### About EMRP

The European Metrology Research Programme (EMRP) is a metrology-focused European programme of coordinated R&D that facilitates closer integration of national research programmes. The EMRP is jointly supported by the European Commission and the participating countries within the European Association of National Metrology Institutes (EURAMET)



## Workshop programme

### Morning session

**9.30**      *Registration and coffee*

**10.00**      **Welcome address**

**Keynote speech: Dr Stefan Weigel, RIKILT - Wageningen UR, Netherlands**

“NanoDefine: An integrated analytical approach to implement the EC definition of nanomaterial”

**11.00**      *Break for refreshments*

**Dr Alex Price, Programme Manager, BSI (British Standards Institution), UK**

“Standards in nano-technology and particle sizing”

**Nick Boley, Government Chemist Programme, LGC, UK**

“Nanomaterials regulations and measurement implications”

**12.30**      *Lunch*

### Afternoon session- key outcomes of the EMRP project

**Dr Heidi Goenaga-Infante, LGC, UK**

“NanoChOp project overview: challenges, outcomes and impact”

**Dr Gert Roebben, JRC, Belgium**

“Material selection and preparation process: challenges and outcomes”

**Dr Alex Shard, NPL, UK**

“Methods for the physical characterisation of nanomaterials and their applicability in complex media”

**3.00**      *Break for refreshments*

**Dr Ute Resch-Genger, BAM, Germany**

“Technologies developed for the optical characterisation of fluorescent particles”

**Dr Dorota Bartczak, LGC, UK**

“Methods for chemical characterisation of nanomaterials in biological systems”

**Discussion and project feedback**

Opportunity to reflect on the achievements of the project and discuss remaining challenges for the use of nanomaterial

**5.00**      *Close*

## Registration details

The workshop will be held at LGC’s headquarters in Teddington, South West London ([www.lgcgroup.com](http://www.lgcgroup.com)). The venue is conveniently located for travel by car (easily accessible from the M3, M4 and M25), rail (30 minutes direct from London Waterloo) or air (30 minutes by taxi from Heathrow airport).

To register your interest in this workshop, or for further information, please contact:

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For more information about the NanoChOp project visit <http://nanochop.lgcgroup.com/>