

## COST Action ENTER (ES1205)

The European Cooperation in Science and Technology (COST) is a tool for the transnational coordination of nationally funded research activities. COST is based on an agreement between 36 European countries (plus reciprocal agreements with AUS, NZ, RSA and ARG).

The COST Action ES1205 on the transfer of Engineered Nanomaterials from wastewater Treatment & stormwater to Rivers (ENTER) aims to connect scientists and decision-makers to provide new insights into the role of urban water systems controlling the release of Engineered Nano Materials (ENMs) to the aquatic environment. In this context the following issues should be addressed: (i) which and (ii) what amounts of ENMs are released, (iii) how persistent are ENMs and (iv) to what extent do they cause in situ toxicity?

[www.cost.eu/domains\\_actions/essem/Actions/ES1205](http://www.cost.eu/domains_actions/essem/Actions/ES1205)  
Contact: [ES1205@bafg.de](mailto:ES1205@bafg.de)

The proposed workshop is the fourth meeting of the experts of the WG4 Norman working group on Engineered nanomaterials in the environment that was established in Koblenz, Germany in 2010. The aim of WG4 is the connection of the work of the different members/participants to bridge the working areas of environmental analytical chemistry, colloid and nano science, limnology, soil science and (eco)toxicology to fill the gap between scientists and authorities.

The purpose of this meeting is to bring together scientists, industry & authority representatives, to facilitate discussions of latest research results, promote future collaborations and most importantly, attract young minds into nanoscience researches.

This will increase the scientific cooperation/exchange between NORMAN members and participants and connect scientists, public servants, industry and agencies dedicated to the support of entrepreneurs in the process of development and innovation.

## NORMAN Network

[www.norman-network.net](http://www.norman-network.net)

NORMAN is an independent scientific network in the field of emerging pollutants.

NORMAN facilitates an exchange of information, debate and research collaboration at a global level.

### NORMAN's mission is to:

- enhance the exchange of information and collection of data on emerging environmental substances;
- encourage the validation and harmonisation of common measurement methods and monitoring tools so that the demands of risk assessors can be better met;
- ensure that knowledge of emerging pollutants is maintained and developed by stimulating coordinated, interdisciplinary projects on problem oriented research and knowledge transfer to address identified needs.

NORMAN operates via the organisation of a number of activities, including expert group meetings, workshops, databases and method validation exercises.

The activities of the association are planned and organised each year on the basis of an Annual Programme of Activities.



## Engineered nano materials in the waste water treatment process and associated environments



### NORMAN Working Group N°4 and COST Action ENTER



Rome, 19 September, 2013



Facoltà di Ingegneria  
Università di Roma La Sapienza

## LOCATION

The location of the workshop will be Rome, Italy, in the Renaissance Cloister of Saint Peter in Chains (100 metres from Colosseo) that is housing the faculty of Civil and Industrial Engineering of the University of Rome, La Sapienza. The workshop will be under the umbrella of the ninth edition of Nanoforum. Nanoforum is an important meeting point for companies and research centres operating in the field of micro and nanotechnologies, covering as much as possible of all aspects.

This location will allow discussion of the safety of nano-products in a broader context, being a full day of the workshop and an integral part of the Nanoforum 2013:  
<http://www.nanoforum.it/en/>

## TOPICS

The main topics will cover:

- i) The fate and transport of ENMs in urban water cycle;
- ii) Their fate in the waste water treatment process;
- iii) The analytical toolbox;
- iv) Toxicology & Regulation.

## 19 September - within NANOFORUM 2013

- 9:00 *Welcome from the hosts*  
 Luciana Dini, University of Salento and  
 Marco Rossi, Sapienza University of Rome, Italy
- 9:15 **Lars Duester**  
 Federal Institute of Hydrology, Germany  
**The COST Action ES1205 ENTER & WG 4  
 of the NORMAN Network.**
- 9:35 **Ralf Kaegi**  
 EAWAG, Switzerland  
**Michael Burkhardt**  
 HSR University of Applied Sciences Rapperswil, CH  
 WG 1 ENTER & Task group II NORMAN  
**Fate and transport of ENMs in the Environment**
- 10:25 *Coffee Break*
- 11:00 **Frank von der Kammer**  
 University of Vienna, Austria  
**Bjoern Meermann**  
 Federal Institute of Hydrology, Germany  
 WG 2 ENTER & Task group I NORMAN  
**The analytical toolbox: ways to detect, differentiate  
 and quantify ENMs in the environment.**
- 11:50 **Ailbhe Macken**  
 NIVA, Norway  
**Arno Gutleb**  
 CRP – Gabriel Lippmann, Luxembourg  
 WG 3 ENTER & Task group III NORMAN  
**From toxicity studies to regulation**
- 12:40 *Lunch*

- 14:00 **Thomas Bucheli**  
 Federal Department of Economic Affairs,  
 Education and Research EAER, Switzerland  
**Nanomaterials in Plant Protection and  
 Fertilization**
- 14:30 **David Carlander**  
 Nanotechnology Industries Association, Belgium  
**Nanomaterials and wastewater treatment:  
 Opportunities and issues to consider.**
- 15:00 **Luisa Campagnolo**  
 Department of Public Health and Cell Biology,  
 University of Rome Tor Vergata, Italy  
**The Repto-Tox Effect of Engineered  
 Nanoparticles: from in vivo to in vitro**
- 15:30 **Sophie Paultre and Olivier Pairault**  
 Ministry of Ecology, Sustainable Development  
 and Energy, France  
**The French reporting scheme on nanomaterials**
- 16:00 *Coffee Break*
- 16:30 *Plenary discussion*  
 Moderation by  
**Lars Duester**, Chair of ES1205  
**Ralf Kaegi**, Chair of WG4 in NORMAN
- 17:00 *End*
- Participation is free of charge and potential participants  
 from authorities, industry and the public (media) are  
 invited.
- We hope for a lively exchange.