

Integrated approach for exposure and health effects monitoring of engineered nanomaterials in workplaces and urban areas

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The project NanoExplore uses an integrated approach containing biomonitoring studies and the characterisation of exposure levels of engineered nanomaterials (ENM) in indoor workplaces and urban areas. Data of ENMs concentrations, measured by a wireless sensor network, appropriate biomarkers and a web-based data management tool will help to minimise possible effects of ENMs to human health.

Status quo:

- NanoExplore project has reached the implementation actions and made great advances in the different work packages
- The NanoExplore webtool has been designed and developed in its first demo version. The demo version was forwarded to end-users and stakeholders for feedback and improvements are in progress. We hope and believe that this tool will be useful not only for the project but also for external users and data providers
- Tests to the final prototype of the NanoExplore Device built by Ramem is ongoing. Testing functionalities such as remote measurement, sending data, download and analysis of data, calibration of instruments and applicability of data gathered with setups in our testing chamber but also in outdoors
- The team is working on stakeholder engagement by contacting them via Skype, email or phone to discuss their needs

NEXT EVENTS

10th International Conference in Toxicology
20th – 22th April 2021,
Virtual

RELEVANT NEWS

The virtual “NanoSAFE Digital Conference” held from 16th to 20th November. During the conference has been shared the latest R&D results on environmental, health and safety issues related to nanomaterials and beyond.

- Until now, 19 individuals were very interested in our project and they warmly accept the invitation to participate to NanoExplore Stakeholder Group
- Substantial progress have been made. It has been completed the field campaign for all volunteers from the Universal control group, with the sample of around 25-30 volunteers
- Within the project, a successful webinar series has been held. On 20th July a virtual webinar 'Human biomonitoring of nanomaterials: Challenges and Achievements' has been attended by 73 attendees from companies manufacturing or handling nanomaterials, health and safety manager, employees handling nanomaterials, persons involved in the safety and regulation of nanomaterials and scientists in the field of nanosafety. On 8th of October NanoExplore: Exposure and Devise webinar were attended by 15 stakeholders . During the webinar project partners discussed aims and achievements of the project
- The current situation with the Corona epidemic is also strongly affecting the progress of the project, and even more important –the lifes of all project partners. Delivery bottlenecks for necessary components for the wireless sensor network, closed laboratory facilities and the restriction of social contacts and travelling are a big challenge for reaching the desired goals. Nevertheless, the team is working hard on possible alternatives to fulfill the project deliveries in time, for example through engagement of companies and stakeholders remotely via conference calls, and more online webinars and trainings



PAST EVENTS

20th July 2020 Human biomonitoring of nanomaterials: Challenges and Achievements, Virtual

16 – 17 September 2020, NanoEHS COR Workshop, Virtual

8th October 2020 NanoExplore; Exposure and Devise, Virtual

28th October 2020, Nanotech France, Virtual

16th November 2020, Nanosafe Digital Conference Virtual

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