

# Research on micro- and nanoplastics

## Frank van Belleghem and Inneke Hantoro.

Dear members of NouW and interested people.

In these weird times with corona, it is not easy to plan live NouW meetings. Therefore, we will present our first NouWEBinar on September 4th. Online meetings have the advantage that you don't have to travel and we have the possibility to invite a wider audience. The session will start with Frank van Belleghem from Hasselt in Belgium, followed by Inneke Hantoro from Semarang in Indonesia. We will start at 14:00.



*Frank van Belleghem will give an introductory lecture on the occurrence of micro- and nanoplastics in the environment and the possible health effects. Frank will explain how he organises the research of the microplastics based on the ZonMw research, this will include the synthesis of microplastics, the characterisation of the microplastics, the exposure experiments, the detection of the plastics in the cells, and the measurement of toxicity. It will be a theoretical webinar, comprehensible for a non-expert audience.*

After Frank's talk there will be time for discussion.  
About 15:00 we will have a 5 minute break for drinks and cookies.  
The talk of Inneke will start after the break.

*Inneke Hantoro will devote her lecture to her OU/Unika PhD-research in Semarang/UHasselt, it will be a more or less applied interpretation of Frank's talk. It will include the detection of microplastics in commercial seafood; the uptake, translocation and toxicity of microplastics in human gut cells (preliminary result); seafood consumption and exposure assessment of microplastic intake by using Semarang as a case study.*



After this second talk, there will be also time for discussion.  
We will close about 16:00 or a little bit later.

We suggest that you watch the following BBC movie as preparation for the NouWEBinar:  
<https://vimeo.com/269017338>  
Don't worry, it takes only a few minutes.

If you would like to follow the NouWEBinar please send a mail to:  
Annemarie van Hattum: [secretaris@nouw.nl](mailto:secretaris@nouw.nl)

The evening before the NouWEBinar you will receive an E-mail with the link to the session.