



Workshop agenda

# Safe and Sustainable Smart Nanomaterials

European Commission, DGs JRC & RTD Workshop

JRC Ispra, Italy

9-10 September 2020

Virtual Workshop



# Safe and Sustainable Smart Nanomaterials

JRC Ispra site, 9-10 September 2020

## Day 1

08:30 – 09:00 **Connection and sound tests**

### 09:00 – 10:10 **INTRODUCTION**

Chair: Juan Riego Sintes (European Commission, JRC, Consumer Products Safety Unit)

- *Welcome (10 min)*
  - Arnd Hoeveler (European Commission, JRC, Consumer Products Safety Unit, Head of Unit)
  - Søren Bøwadt (European Commission, RTD, Materials for Tomorrow Unit, Deputy Head of Unit)
- *Setting the scene for Smart Nanomaterials (10 min)*  
Agnieszka Mech (European Commission, JRC, Consumer Products Safety Unit)
- *Safe-by-Design for nanomaterials (15 min)*  
Blanca Suarez (TEMAS Solutions, Switzerland)
- *Green chemistry and sustainability within a circular economy - an outline (15 min)*  
Klaus Kümmerer (Leuphana University, Germany)
- *Towards Sustainable-by-Design (10 min)*  
Aleksandra Malyska (European Commission, RTD, Materials for Tomorrow Unit)

10:10 - 10:20 **Break**

### 10:20 - 11:35 **SESSION 1 – DESIGNING SMART NANOMATERIALS**

Chair: Aleksandra Malyska (European Commission, RTD, Materials for Tomorrow Unit)

- *Nanotechnology Solutions to Challenges in Agriculture (15 min)*  
Astrid Avellan (CESAM, University of Aveiro, Portugal & Carnegie Mellon University, USA)
- *Polypeptide-based Stimuli-Responsive Nanocapsules for Skin Delivery (15 min)*  
Iraida Loinaz (CIDETEC, Spain)
- *Design and potential applications of nanomaterial in food packaging (15 min)*  
Manuela Franchi and Gloria Guidetti (Tetra Pak Packaging Solutions S.p.A., Italy)
- *EUMAT<sup>1</sup> Technology Platform (15 min)*  
Dmitri Petrovykh (International Iberian Nanotechnology Laboratory, INL, Portugal)

11:35 – 11:45 **Break**

11:45 – 12:30 **Plenary discussion**

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<sup>1</sup> European Technology Platform for Advanced Engineering Materials and Technologies

12:30 – 14:00 **Break** (Lunch)

14:00 – 15:20 **SESSION 2 – FROM SAFE-BY-DESIGN TO SAFE-AND-SUSTAINABLE-BY-DESIGN**

Chair: Hubert Rauscher (European Commission, JRC, Consumer Products Safety Unit)

- *Nanomaterials in the Environment: Moving from Challenges in Risk Assessment to Informing Safe by Design Principles (15 min)*  
Khara Grieger (Genetic Engineering and Society Center, NC State University, USA)
- *Navigating nanomaterial space for performance, hazard and cost: approaching more sustainable nanomaterial selection and design (15 min)*  
Mark Falinski (Yale University, USA)
- *Challenges and Opportunities of Life Cycle Assessment in view of the sustainability of smart nanomaterials (15 min)*  
Roland Hischier (Swiss Federal Laboratories for Materials Science and Technology, EMPA)
- *Environmental and Ethical Issues for Society (15 min)*  
Michael Neaves (ECOS - European Environmental Citizens' Organisation for Standardisation, Belgium)

15:40 - 16:40 **Breakout session**

16:40 - 16:45 **End of the first workshop day**

## Day 2

08:30 - 09:00 **Connection and sound tests**

### 09:00 – 10:00 **SESSION 2 (continued)**

- *Challenges for Human Health Risk Assessment of Smart Nanomaterials for Applications in Consumer Products (15 min)*  
Qasim Chaudhry (Scientific Committee on Consumer Safety, SCCS, Belgium)

09:15 – 10:00 **Plenary discussion**

10:00 – 10:15 **Break**

### 10:15 – 11:30 **SESSION 3 – REGULATORY PREPAREDNESS**

Chair: Kirsten Rasmussen (European Commission, JRC, Consumer Products Safety Unit)

- *Next generation nanomaterials under the REACH regulation (10 min)*  
Abdelqader Sumrein (European Chemicals Agency ECHA, Finland)
- *Food legislation TBC (10 min)*  
Takis Daskaleros (European Commission, SANTE, Food Processing Technologies and Novel Foods Unit)
- *Assessing the risk of advanced (nano)materials in food and feed applications (10 min)*  
José Tarazona (European Food Safety Authority EFSA, Italy)
- *Nanomaterials and the Cosmetic products Regulation (10 min)*  
Roberto Scazzola (European Commission, GROW, Consumer Industry Unit)
- *Information to facilitate safe design and use of smart/advanced materials. An exploration for nanobio- structures (15 min)*  
Agnes Oomen (National Institute for Public Health and the Environment, RIVM, the Netherlands) (15 min)

11:35 – 12:35 **Breakout session**

12:35 – 14:00 **Break** (Lunch)

14:00 – 14:45 **Plenary discussion**

### 14:45 – 15:30 **SESSION 4 - OUTLOOK: How to shift towards a more sustainable path? Implications of the Chemical Strategy for Sustainability**

Chair: Søren Bøwadt (European Commission, RTD, Materials for Tomorrow Unit, Deputy Head of Unit)

15:30 – 15:45 **Group Photo** (cameras on)

### 15:45 – 16:15 **WRAP-UP AND CONCLUSIONS**

Chairs: Juan Riego Sintes (European Commission, JRC, Consumer Products Safety Unit)  
Barend Verachtert (European Commission, RTD, Materials for Tomorrow Unit, Head of Unit)

16:15 **END OF THE WORKSHOP**



**Organizers:**

**European Commission Joint Research Centre (JRC):** Agnieszka Mech, Stefania Gottardo, Hubert Rauscher, Juan Riego Sintes, Kirsten Rasmussen, Paula Jantunen, Heidi Olsson

**European Commission Directorate-General for Research and Innovation (RTD):** Jana Drbovhlavova, Aleksandra Malyska, Søren Bøwadt, Alessia Amodio

**Contact:** [JRC-Smart-Nanomaterials-Workshop@ec.europa.eu](mailto:JRC-Smart-Nanomaterials-Workshop@ec.europa.eu)