

NanoDialogue
of the German Government

**Expert Dialogue 6.1: Opportunities and risks of
active materials at the nano scale
Programme**

21./22. June 2022

Köthener Straße 2-3; Room KTR 03.07.01



Federal Ministry
for the Environment, Nature Conservation,
Nuclear Safety and Consumer Protection



Programme 21 June 2022

11:00 Welcome

Anke Jesse, BMUV

11:15 Introduction to the ExpertDialogue

Antonia Reihlen, Ökopol

11:25 Introduction round

Overview

11:45 Presentation and discussion: Introduction and overview – what are active materials at the nano scale

Bernd Giese, BOKU ISR

12:15 Lunch

Active materials at the nano scale in medical applications

13:15 Active materials at the nano scale in medicines – nano meets bio

Achim Aigner, University of Leipzig

13:45 Active materials in pharmacology

Andreas Herrmann, DWI RWTH Aachen

14:15 Sensors at the nanoscale for optical diagnostics

Wolfgang Fritzsche, Leibniz-IPHT

14:45 Coffee break

Active materials at the nano scale in electronic applications

15:00 Quantum Dots – a new class of materials for display technologies

Armin Wedel, Fraunhofer Institute for Applied Polymer research

15:30 Nanomaterial based electronic noses – curse or blessing?

Martin Sommer, KIT Institute of Microstructure Technology

16:00 Nano sensors in lightweight construction and high-performance materials

Robert Böhm, HTWK Leipzig

16:30 Final discussion

Moderation Ökopol

Ca. 17:00

End of the day

Programme 22 June 2022

9:00 Summary of the first day and discussion

Antonia Reihlen, Ökopol

Active materials at the nano scale: self-organisation and polymers

9:15 DNA as construction material for active nanomaterials

Enzo Kopperger, Technical University of Munich

9:45 Light against antibiotics resistance: characterization and biological properties of new photoactive materials

Anzhela Galstyan, University Duisburg/Essen

10:15 Electroactive polymers

Ivica Kolaric, Fraunhofer IPA

10:45 Coffee break

Regulation and ethical aspects

11:15 Regulatory issues regarding active materials at the nano scale in REACH and in the CLP regulation

Lars Tietjen, German Environment Agency

11:45 Regulatory aspects and Governance

Andrea Haase, Federal Institute for Risk Assessment

12:15 Ethical aspects about the use of active materials at the nano scale

Wolfgang Liebert, BOKU ISR

12:45 Final discussion on opportunities and risks of active materials at the nano scale

Moderation Ökopol

End of the Expert Dialogue app. 13:30