

Hereby we cordially invite interested persons for the
mini-symposium on:

‘New aspects in the assessment of skin exposure in the workplace’

March, Thursday 10th 2016 - 13.30-16.30 h - Welcome from 13.00 h

Location: Hotel Central, Den Bosch,
Burgemeester Loeffplein 98, 5211 RX

<http://www.hotel-central.nl/Contact.html>

Introduction

Occupational exposure limits of dangerous substances have yet been solely set for the inhalation of workroom air. Where studies have shown that dermal exposure could cause systemic effects, a skin notation is added as an alert to the OEL of the chemical.

With the introduction of the EU REACH-directives, separate exposure limits were derived for dermal exposure such as the DNEL_{dermal, local} or the DNEL_{dermal, systemic}. Has this new attention lead to new tools to assess dermal exposure in the workplace? That is the subject of this mini-symposium. All presentations will be in English.

Organization:

NVT-section occupational toxicology together with the Contact Group of Health and Chemistry (CGC)

Registration is NOT necessary; Participation is FREE

Certificate:

A certificate will be handed out ONLY to members of the NVT and CGC.

Program: (Chair: Frans Jongeneelen)

- 13.00 - 13.25 **Welcome (coffee and tea)**
- 13.25 - 13.30 Opening and announcements by members of the boards of NVT and CGC.
Frans Jongeneelen (NVT, section occupational toxicology) and **Paul Scheepers** (Contact Group of Chemistry).
- 13.30 - 14:00 **BAUA Research Project SYSDEA overview and experimental concept.**
Overview, installation of the experiments, the pre-experimental phase and early results.
Gudrun Walendzik (BAUA, Germany)
- 14.00 - 14.30 **Modeling of dermal exposure**
What models for dermal exposure assessment are available and how well are various model estimates of dermal exposure?
Jody Schinkel (TNO, Netherlands)
- 14.30 - 15.00 **Break**
- 15.00 - 15.30 **How to measure dermal exposure?**
What is the best metric for dermal exposure? Dose per surface-unit, or as flux (dose per cm²*h).
Experiences with the dermal exposure of VOC
Jeroen Vanoirbeek (KU LEUVEN, Belgium)
- 15.30 - 16.00 **Dermal OEL's = DOEL**
What are relevant metrics? Absorption rate, external dermal dose per unit skin surface and time or as dose/kg BW. How to drive dermal exposure limits for workers? Explanation of derivation of dermal DNELs as requested by REACH-legislation.
Peter Bos (RIVM, Netherlands)
- 16.00 - 16.30 **Panel discussion**
- 16.30 **End of meeting. Closure**

About the speakers:



Dr. Gudrun Walenzik is a chemist who studied at the universities of Bielefeld and Dortmund. She conducted an extra-occupational PhD-work at ISAS Institute of Spectrochemistry and Applied Spectroscopy (ISAS, today the Institute for Analytical Sciences) in Dortmund. She worked for over 20 years in industry, consultancy and scientific institutions on analytical chemistry issues. Prior to joining BAuA she worked as a head of an accredited analytical laboratory at the Institute for Waste Management and Environmental Technology (IFEU), an An-Institute of the South Westphalia University of Applied Sciences with focus on environmental and waste analysis. Since the beginning of 2000 her work focused more on the themes quality management and OSH management systems in accordance with OHSAS 18001. She currently works as a Scientific Officer within the German Federal Institute for Occupational Safety and Health (BAuA) in the BAuA-Unit "Exposure Scenarios" since 2009 on exposure assessment and risk management measures at the workplace within the REACH framework. This includes the collation and use of data in support of chemical exposure assessment for regulatory purposes. Additionally she is involved in research and development in the field of occupational safety and health (exposure and measures) for hazardous substances. She is the BAuA project manager of the SysDEA project (Systematic analysis of dermal exposure to hazardous chemical agents at the workplace) and has special interest in the assessment of dermal exposures in a regulatory context.



Dr. Jody Schinkel is researcher at TNO.



Dr. Jeroen Vanoirbeek is assistant professor KU Leuven.



Peter M.J. Bos (MSc) is a senior scientist at the RIVM since 2002. Before joining the RIVM, he worked for approximately 17 years at different TNO Institutes. He has nearly 30 years of experience in risk assessment of human exposure to chemicals. Main areas of expertise are occupational exposure scenarios and chemical emergency scenarios. He has been involved in the derivation of occupational exposure limits (OELs) for circa 25 years. He has worked on the concept of dermal occupational exposure limits (DOELs) and was member of the Ad Hoc committee of the Health Council of the Netherlands on standards for dermal exposure at the workplace. He is also involved in the development of tools and methodologies for improvement of human risk assessment, including risk assessment in occupational exposure scenarios. Additional areas of interest include human biomonitoring and the role of kinetics in human risk assessment.

De Contactgroep Gezondheid en Chemie

De Contactgroep Gezondheid en Chemie (CGC) is een multidisciplinair discussieforum met als doel het uitwisselen van informatie over de gezondheid van de mens in relatie tot chemische factoren en het bevorderen van het netwerk van mensen werkzaam op dit terrein. Dit wordt gerealiseerd door het organiseren van themamiddagen voor bedrijfsartsen, veiligheidskundigen, arbeidshygiënist, toxicologen, medisch milieukundigen en milieugezondheidskundigen. De middagen worden, afhankelijk van het thema, georganiseerd in samenwerking met de Nederlandse Vereniging voor Arbeidshygiëne (NVvA), de Nederlandse Vereniging voor Veiligheidskunde (NVVK), de Nederlandse Vereniging voor Toxicologie (NVT), de Nederlandse Vereniging van Medische Milieukunde (NVMM) en de Nederlandse Vereniging voor Arbeids- en Bedrijfsgeneeskunde (NVAB). De themamiddagen bieden de mogelijkheid om al deze verschillende specialisten bij elkaar te brengen en zo multidisciplinaire netwerken te laten ontstaan.

Meer informatie over de programma's van de CGC kunt u vinden op de website van de Nederlandse Vereniging voor Arbeidshygiëne, www.arbeidshygiene.nl, door te kiezen voor "Vereniging", "Contactgroepen" en "Gezondheid en Chemie". U vindt daar de programma's en presentaties van de CGC-bijeenkomsten die al hebben plaatsgevonden. Als lid van de CGC ontvangt u uitnodigingen voor nieuwe bijeenkomsten.

Tijdens de bijeenkomst worden door de CGC *uitsluitend aan leden van de CGC* certificaten van deelname uitgereikt ten behoeve van certificering. Deelnemers die geen lid zijn van de CGC maar wel lid zijn van één van bovengenoemde beroepsverenigingen kunnen hun eigen beroepsvereniging verzoeken om een certificaat van deelname te verstrekken.

Aanmelding als lid van de CGC is mogelijk via info@epsnet.nl

De volgende bijeenkomsten van de CGC zijn op:

10 maart 2016 in samenwerking met de NVT

9 juni 2016 in samenwerking met de NVAB

9 - 13 oktober 2016 - seminar tijdens International Society of Exposure Science meeting, Utrecht

10 november 2016 in samenwerking met de NVvA