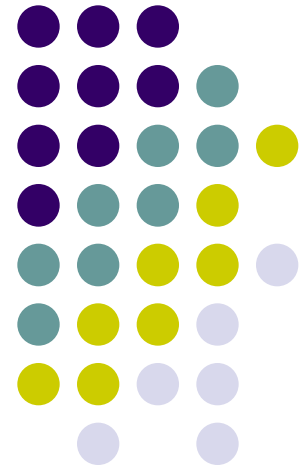
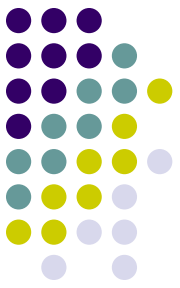


## Session 4

# Exposure Modelling for Chemical Safety Assessment

*Moderator:* Steve Bailey  
Past-President BOHS





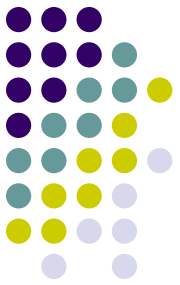
# The Regulatory Requirement

- For substances >10 tonnes per annum, manufacturer / importer must produce a Chemical Safety Assessment (CSA)
- CSA must contain
  - ✓ quantified exposure assessment
  - ✓ comparison with OELs/DNELs
  - ✓ Risk Characterisation
  - ✓ recommended Risk Management Measures
- Registration by 30 Nov 2010
  - ✓ >1000 tonnes/yr
  - ✓ > 100 tonnes/yr and R50/R53
  - ✓ CMR cat 1/2

# How can M/Is assess exposure?

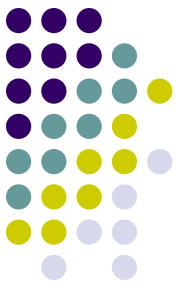


- Exposure data
  - ✓ actual
  - ✓ read across
- Tier 1 screening tools
  - ✓ EUSES (EASE)
  - ✓ ECETOC TRA, Stoffenmanager, BAuA / EMKG
- Tier 2 tools
  - ✓ Advanced REACH Tool (ART)
  - ✓ scenario specific tools e.g. spray painting



# Presentations

- How do the models work?
- What are the applicability domain and limitations of each?
- How can users overcome the limitations to get the best outputs from any model?



# Discussion

- How are M/Is currently making their CSAs?
  - ✓ How do they choose the model?
  - ✓ How do they cope with gaps?
- How do we deal with dermal exposure?
- How do REACH CSAs relate to Workplace Risk Assessments?
- What is the applicability of the modelling tools to occupational hygiene practice in the field?
- What should be on the research agenda for modelling tools? How urgent is it?

# Agenda



- |             |  |
|-------------|--|
| 8.40-9.00   | <b>ECETOC Targeted Risk Assessment Tool, Version 2</b><br>C. Money/D. Noij (ECETOC)    |
| 9.00-9.20   | <b>Stoffenmanager</b><br>H. Heussen (ArboUnie)   |
| 9.20-9.40   | <b>Tier 1 Exposure Modelling Tool of BauA:<br/>EMKG-EXPO-TOOL</b><br>M. Tischer (BAuA) |
| 9.40-10.00  | <b>Quantified Efficiency of Risk Management Measures</b><br>W. Fransman (TNO)          |
| 10.00-10.30 | <b>Advanced REACH Tool (ART)</b><br>E. Tielemans (TNO)                                 |
| 10.30-11.00 | Coffee Break   |
| 11.00-11.30 | <b>Example calculation of ART</b><br>M. van Tongeren (IOM)                             |
| 11.30-12.30 | <b>Facilitated discussion</b>  |