

# Seminar Objectives and Contents

Concaawe H/STF-29

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## Dermal Exposure Studies on Workers and Consumers for Petroleum Substance REACH Dossiers

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Exposure Scenarios are one of the cornerstones of the REACH registration dossiers

- ▶ They describe how hazardous substances can be used safely without harm to people or the environment
- ▶ Exposures via inhalation and via dermal uptake

Concawe runs H/STF-29 to develop/maintain the human health (HH) component of the Exposure Scenarios for its registration dossiers

- ▶ Covering workers in Concawe companies, workers in downstream using companies, and private 'consumers' of petroleum substances
  - ▶ With oversight of the Health Management Group
  - ▶ The Environmental component of the ES's is handled by the Ecology Group under the Petroleum Products Management Group

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Created 'pre-REACH' to support Concaawe's voluntary initiative to do Risk Assessments of Petroleum Substances in Existing Substance Regulation style

- ▶ Exposure monitoring methods (gasoline, bitumen emissions, LPG)
- ▶ HH exposure studies on kerosine, gas oil, heavy fuel oil (dermal)
- ▶ Participated in REACH Implementation Project 3.2 to elaborate Exposure Scenario guidance
- ▶ Developed framework for Use and Exposure maps
- ▶ Wrote all Concaawe HH Exposure Scenarios for the REACH dossiers, including adaptations to technical guidance necessary for PS's
- ▶ Commissioned studies to address uncertainties and data gaps

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H/STF-29 continues to support HH Exposure Scenarios in 2015+

Today we want to:

- ▶ Update you on the results of some recent studies
- ▶ Solicit wider Concaawe member company support for future dermal exposure assessments in support of dossiers

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- ▶ Why dermal exposure studies now? REACH and dermal DNELs; Tier-1 and higher tier approaches (Jan)
- ▶ Which studies have been done by Concaawe:
  - ▶ Heavy Fuel Oil exposures in truck loading and marine engine repair – Jan
  - ▶ Service station attendants to gasoline and diesel in Siena, Italy – Giulia
  - ▶ Simulation studies of consumer exposures to diesel fuel and lubricants – Giulia
    - ▶ Comparison of the diesel fuel results of these 2 studies – Giulia
  - ▶ Risk management measures for dermal exposures: gloves and beyond – Jan
- ▶ Outlook: further studies needed – Giulia, Jan

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- ▶ Report 12/04: Method for monitoring exposure to LPG containing small amounts of 1,3-butadiene
- ▶ Report 1/06: Human exposure information for EU substance risk assessment of gas oils
- ▶ Report 6/07: Human exposure information for EU substance risk assessment of kerosine
- ▶ Report 11/12: Developing human health exposure scenarios for petroleum substances under REACH
- ▶ Ann. Occup. Hyg., Vol. 55, No. 3, pp. 319–328, 2011: An Assessment of Dermal Exposure to Heavy Fuel Oil (HFO) in Occupational Settings
- ▶ Determination of the potential for dermal exposure from transfer of lubricants and fuels by consumers, TM/13/03, IOM (2013)
- ▶ Other H/STFs produced series of gasoline exposure reports

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