

CURRICULUM VITAE

NAME: K. Ole Kusk **Gender:** Male
TITLE: Associate Professor, Department of Environmental Science and Engineering
(Ecotoxicological Group), Technical University of Denmark
BORN: 5. January 1951
EDUCATION: Ph. D. (biology)
Institute of Plant Physiology, University of Copenhagen, Denmark, 1980

KEY QUALIFICATIONS:

Specialist in ecotoxicology and risk assessment of chemicals
Extensive experience in ecotoxicological testing of effects of endocrine disrupters, heavy metals, organic chemicals, products and polluted water on a series of species. Extensive experience in literature surveys of toxicity and ecological effects of organic and inorganic chemicals
Specialist in culturing and testing of algae and crustaceans and their physiology

PROFESSIONAL CAREER:

May 1978-Nov 1980 Oil pollution research project supported by the Danish Natural Science Research Council (Ph. D. education at the University of Copenhagen)
Dec. 1980-Jan 1981 Literature survey for Hempel Technology A/S concerning effects of pesticides on algae
Feb.-June 1981 Pedagogical education at Solrød Gymnasium (High school)
July 1981-Jan 1991 Project manager/research engineer at the Water Quality Institute (now DHI), Hørsholm
Feb.91-Jan 95 Assistant Professor at the Laboratory of Environmental Science and Ecology, Technical University of Denmark
1. Feb. 1995- Associate Professor at the Department of Environmental Science and Engineering, Technical University of Denmark

LEADERSHIPS:

Head of the Laboratory of Environmental Science and Ecology, DTU 1992-93
Head of research group: Environmental Chemistry & Ecotoxicology, E&R, DTU
Chair of steering committee in EU project COMPRENDO

WORK IN RESEARCH SCHOOL:

Member of board of Research School RECETO.
Main coordinator of RECETO summer school 2004.

STUDENT SUPERVISION:

~ 50 master and bachelor students within research areas ecotoxicology, environmental chemistry and risk assessment.

MAIN INVESTIGATIONS AND CONSULTANT ACTIVITIES:

- Participant in the EU project COMPRENDO Comparative Research of Endocrine Disrupters - Effects of (anti)androgenic EDC on wildlife 2002-2005.
- Participant in Danish Centre for Ecotoxicological Research with the projects: "Effects of toxic substances on aquatic ecosystems" 1992-1997, and "Comparative studies of effects and bioaccumulation of lipophilic organic substances in phytoplankton algae, crustaceans and fish" 1993-1997.
- Project manager of a research project "Food chain effects of pesticides on aquatic plants and animals" 1991-1993.

- Participant in standardisation work in ISO, OECD, Danish Standard 1982-1991.
- Project manager of several project concerning data generation on algal test on organic chemicals for the Environmental Protection Agency for use in development of a QSAR model

PUBLICATIONS:

Petersen, S. and Kusk, K.O. 2000. Photosynthesis tests as an alternative to growth test for hazard identification. *Arch. Environ Contam. Toxicol.* 38: 152-157.

Wollenberger, L., Halling-Sørensen, B. and Kusk, K.O. 2000. Acute and chronic toxicity of veterinary antibiotics to *Daphnia magna*. *Chemosphere* 40: 723-730.

Trapp, S.; Zambrano, K.C.; Kusk, K.O. and Karlson, U. 2000. A Phytotoxicity Test Using Transpiration of Willows. *Arch. Environ. Contam. Toxicol.* 39(2): 154-160.

Christensen, ER, Chen D, Nyholm N and Kusk KO. 2001. Joint action of chemicals in algal toxicity tests: Influence of response level and dose-response regression model. *Environ Toxicol Chem* 20 (10) : 2361-2369.

Selck, H., Riemann, B., Christoffersen, K., Forbes, V.E., Gustavson, K., Hansen, B.W., Jacobsen, J.A., Kusk, K.O. and Petersen, S. 2002. Comparing sensitivity of ecotoxicological effect endpoints between laboratory and field. *Ecotox Environm Saf* 52: 97-112.

Wollenberger, L., Breitholtz, M., Kusk, K.O. and Bengtsson, B.-E. 2003. Inhibition of Larval Development of the Marine Copepod *Acartia tonsa* by four Synthetic Musk Substances. *The Science of the Total Environment* 305: 53-64.

Kusk, K. O. and L. Wollenberger. 2005. OECD Draft Guidelines for Testing of Chemicals. Proposal for a new Guideline. Calanoid Copepod Development and Reproduction test with *Acartia tonsa*. 2005. Paris, France, Organisation for Economic Cooperation and Development.

Schulte-Oehlmann, U., Albanis, T., Allera, A., Bachmann, J., Berntsson, P. Beresford, N., Candia Carnevali, D., Ciceri, F., Dagnac, T., Falandysz, J., Galassi, S., Hala, D., Janer, G., Jeannot, R., Jobling, S., King, I., Klingmüller, D., Kloas, W., Kusk, K.O., Levada, R., Lo, S., Lutz, I., Oehlmann, J., Oredsson, S., Porte, C., Rand-Weaver, M., Sakkas, V., Sugni, M., Tyler, C., van Aerle, R., van Ballegoy, C., and Wollenberger, L. 2006. COMPRENDO: Focus and Approach. *Environ Health Perspect* Volume 114, No. S-1.

Wollenberger, L. and Kusk, K.O. (2006): A new sediment toxicity test with the marine copepod *Acartia tonsa*. MO1/KL/P51. In: Controversies and solutions in environmental sciences. SETAC Europe 16th annual meeting, The Hague, The Netherlands, 7-11 May 2006. Abstracts, p. 101. SETAC, Brussels.

Wollenberger, L. and Kusk, K.O. (2006): Gonad histology of copepods exposed to (anti)androgens. TH1/Y1/P22. In: Controversies and solutions in environmental sciences. SETAC Europe 16th annual meeting, The Hague, The Netherlands, 7-11 May 2006. Abstracts, p. 277. SETAC, Brussels.

Oda, S., Tatarazako, N. Dorgerloh, M., Johnson, R.D., Kusk, K.O., Leverett, D., Marchini, S., Nakari, T., Williams, T. and Iguchi, T. 2007. Strain difference in sensitivity to 3,4-dichloroaniline and insect growth regulator, fenoxycarb, in *Daphnia magna*. *Ecotox Environm Saf* 67: 399-405.

Ucisik, A.S., Trapp, S. and Kusk, K.O. 2007. Uptake, accumulation, phytotoxicity and removal of 2,4-dichlorophenol in willow trees. *Environ Toxicol Chem* 6 (6): 1165-1171.

Kusk, K.O. and Wollenberger, L. 2007. Towards an internationally harmonised test method for reproductive and developmental effects of endocrine disrupters in marine copepods. In Weltje, L. and Schulte Oehlmann, U. (eds): Special Issue of *Ecotoxicology: Endocrine Disruption in Aquatic Invertebrates*. P. 183-195.