

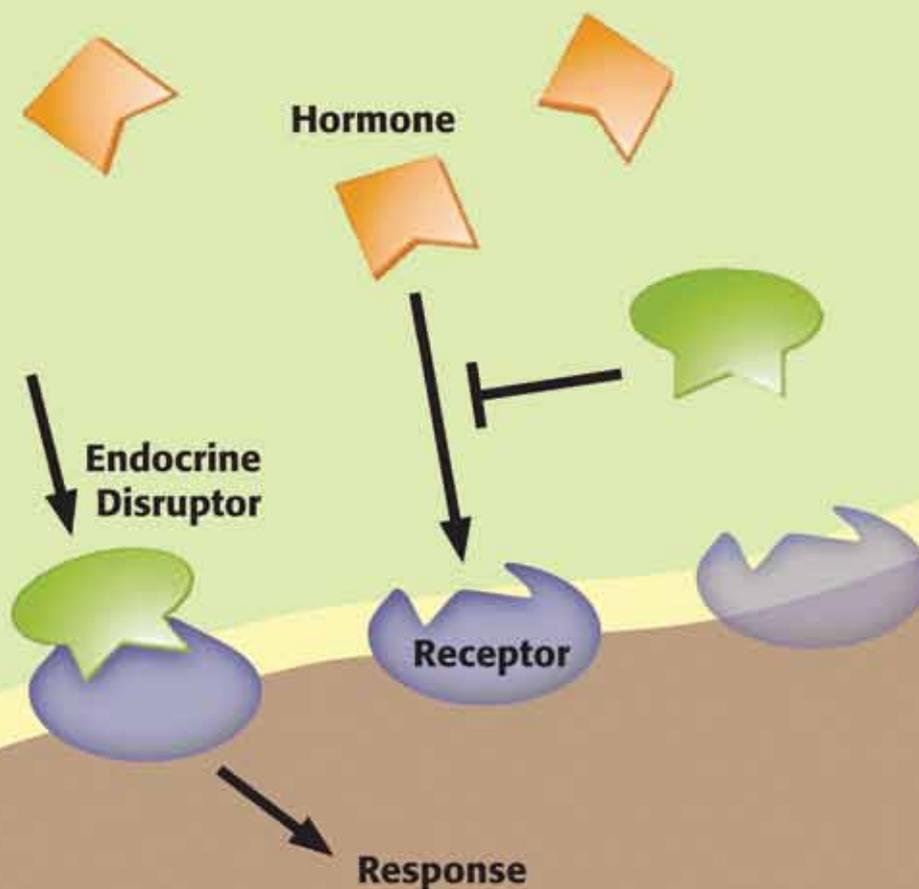
Endocrine Disruptors

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14-15 February 2012

Holiday Inn Munich City Centre, Munich

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Endocrine Disruptors 2012

14-15 February 2012

The debate on the safety evaluation of chemicals for human health and the environment has received increasing attention in the recent past. For example, in response to the concern that certain environmental chemicals could be interfering with the endocrine system of humans and wildlife, regulations have been promulgated by various regulatory bodies around the world to target the evaluation of these types of effects with the final goal to prevent adverse effects on human health and the environment.

According to Annex XV of Regulation (EC) No 1907/2006 (Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)) in Europe, an Annex XV dossier has to be prepared for compounds that are carcinogenic, mutagenic, reproductively toxic, respiratory sensitizers, persistent/bioaccumulative/toxic (PBT) or of equivalent concern. While equivalent concern is somewhat unspecified, chemicals that could interact with the endocrine system would fall into that category. In the United States, the US Congress enacted in 1996 Section 408(p) of the Food Quality Protection Act (FQPA) which directed the US Environmental Protection Agency (EPA) to develop and implement a screening programme using "validated test systems" to investigate the potential of chemicals to induce adverse health effects through endocrine pathways. This endocrine disruptor screening program (EDSP) is now underway and the manufacturers of 67 pesticides and chemicals have to date received test orders for the completion of tier 1 screening tests to be done according to the EPA's 890 test guidelines.

Since an Annex XV dossier or a positive finding from the EDSP will have far reaching consequences, including use restrictions up to a total ban, the assessment of endocrine activity needs to be based on solid science starting from reliable, robust, validated and internationally harmonised screening tests up to, and including, an agreed upon assessment of the available data considering a weight-of-evidence approach.

Endocrine Disruptors 2012 is a two-day conference organised by iSmithers and Smithers Viscient which will address key topics related to the evaluation of adverse effects on the endocrine system and corresponding regulatory requirements. Building on the success of the inaugural conference which highlighted the environmental effects, the 2012 event will focus on the evaluation of the effects on human health.

The conference will bring together experts from academia, regulatory bodies, and industry from around the globe to address the following topics:

- Test methods and testing strategies for the evaluation of endocrine effects
- Interpretation of results as part of risk assessment
- Recent regulatory activities
- Mode of action of endocrine disruptors; presentations of new findings
- Case studies

Endocrine Disruptors 2012 is a must-attend event for individuals working in:

- *In vitro* Toxicology • Toxicology and Eco-toxicology
- Research & Development • Regulatory Affairs
- Contract Research Organisations (CROs)

Conference Venue

Holiday Inn Munich City Centre

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About the Organisers

iSmithers has been organising world class technical conferences for the polymer and related industries for over 30 years. Drawing authorities from industry and academia, conferences offer the ideal forum to hear original, pioneering technical papers and meet and exchange ideas with like-minded peers from across the world. With topics spanning the latest developments in rubber and plastics technology, legislative changes and market trends, **iSmithers** conferences continue to attract over 1,200 senior technical executives and decision makers per year.

Conference Agenda

Tuesday 14 February

Wednesday 15 February

08.30 COFFEE AND REGISTRATION

09.20 Welcome & Introduction to Endocrine Disruptors 2012

Session 1: Regulatory Aspects

09.30 EU's approach to the regulation of endocrine disruptors
Giles Chappell, McKenna Long & Aldridge LLP, Belgium

10.00 OECD activities on endocrine disruptors testing and assessment
Nathalie Delrue, OECD, France

10.30 COFFEE AND NETWORKING

Session 2: Test Strategies and Methods

11.00 The evaluation of control performance in the amphibian metamorphosis assay (OPPTS 890.1100) and in the fish short-term reproduction assay (OPPTS 890.1350) with emphasis on weight of the evidence evaluation of the endpoints for potential interaction with the androgen, estrogen and thyroid hormone systems
Ronald C Biever & Mark A Cafarella, Smithers Viscient, USA

11.30 Guidance to clients on their testing strategies: difficulties and constraints
Mike Neale, Matthew Kane & Thorsten Behsen, LKC Switzerland Ltd, Switzerland

12.00 Evaluation and lessons learned in the *in vitro* tier 1 endocrine disruption screening assays
Dr Colleen Toole, DP Blakeman, S McColley, C Haines, B Wallace, H Wagner, J Willoughby P Wilga & JM McKim Jr, CeeTox, USA

12.30 Q & A SESSION

12.45 LUNCH AND NETWORKING

14.00 Lack of androgenicity and estrogenicity of the three monomers used in a novel polyester plastic
Dr James Deyo, Eastman Chemical Company, USA

14.30 Endocrine disruption in aquatic environment from mechanistic to predictive approach
Dr Stéphanie Nadzialek, Albemarle Europe Sprl, Prof Patrick Kestemont & Sophie Depiereux, FUNDP Namur, Belgium

15.00 A highly sensitive *in vivo* assay for the detection of estrogenic activity using tg(cyp19a1b-GFP) transgenic zebrafish embryos
Dr Olivier Kah, University of Rennes, France

15.30 COFFEE AND NETWORKING

16.00 Pharmacophore models for predicting endocrine disrupting effects of xenobiotics: concept and case studies on steroid modulating enzymes
Dr Daniela Schuster, Institute of Pharmacy/Pharmaceutical Chemistry, Innsbruck, Austria

16.30 Bioassays for the identification of xenobiotics interfering with steroid modulating enzymes: disruption of key regulators of endocrine functions
Prof Alex Odermatt, Swiss Center for Applied Human Toxicology and Division of Molecular and Systems Toxicology, University of Basel, Switzerland

17.00 Q & A SESSION

17.15 END OF DAY ONE

18.30 EVENING SOCIAL EVENT

08.30 COFFEE

Session 3: Mode of Action/New Effects

09.00 Mechanisms of endocrine disruption in humans
Prof Tamara Galloway, David Melzer & Lorna Harries, University of Exeter, UK

09.30 Role of endocrine disruptor chemicals on the tissue levels of AhR and sex steroid receptors in premenopausal breast cancer patients: comparison with benign female tumours
Dr Sepideh Arbabi Bidgoli, Islamic Azad University, Pharmaceutical Sciences Branch, Tehran - Iran

10.00 PPAR-mediated metabolic disruption by phthalates
Béatrice Desvergne, University of Lausanne, Switzerland

10.30 COFFEE AND NETWORKING

11.00 Epigenetic effects of endocrine-disrupting compounds
Dr Ariane Paoloni-Giacobino, Swiss Center for Applied Human Toxicology, Switzerland

Session 4: Case Studies

11.30 Epidemiological studies of Bisphenol A in adults
Prof David Melzer, University of Exeter, UK

12.00 Q & A SESSION

12.15 LUNCH AND NETWORKING

13.30 Effects of perinatal exposure to Bisphenol A on the mammary gland
Prof Cathrin Brisken, National Center of Competence for Molecular Oncology, Switzerland

14.00 Polycystic Ovary Syndrome (PCOS) and Bisphenol A (BPA): experimental and clinical data
Dr Evanthia Diamanti-Kandarakis, Medical School University of Athens, Greece

14.30 COFFEE AND NETWORKING

Session 5: Evaluation of Data including Risk Assessment

15.00 Tiered approach for exposure assessment within an integrated risk assessment framework of endocrine disruptors in the Uruguay River
Diana Míguez, Technological Laboratory of Uruguay, Uruguay; Elise Cartmell, Ana Soares & Simon Pollard, Cranfield University, United Kingdom

15.30 National study on sperm quality in Switzerland
J Vargas, R Parapanov, A Senn & M Germond, FABER Foundation, Lausanne, Switzerland; J Mendiola, University of Murcia, Spain; E Stettler, Swiss Army Medical Services, Switzerland

16.00 Q & A SESSION

16.15 CLOSE OF PROCEEDINGS

For further information

Please contact Helen Charlesworth or Sharon Garrington, tel: +44 (0)1939 250383, email conferences@ismithers.net or visit www.polymerconferences.com.

Conference Language

Please note that the conference will be conducted in English. Programme correct at time of going to print.
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