Fax to ++49(0)541|9633-990

Registration: »1st International Conference on Sustainable Pharmacy«

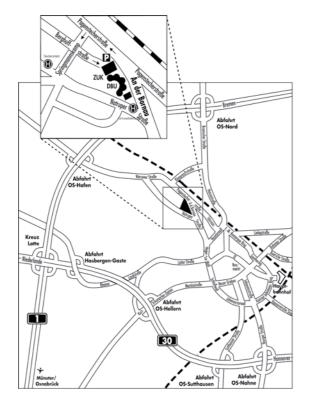
please fill in:	
name	
first name	
affiliation	
address	
phone	
e-mail	

Please return this form as binding registration by fax soonest possible but not later than

April 11, 2008

to Carla Tusche, Zentrum für Umweltkommunikation der Deutschen Bundesstiftung Umwelt gGmbH, ZUK, Fax ++49(0)541/9633-990. Please contact us by e-mail (c.tusche@dbu.de) in case you have any queries.

Since the number of participants attending this conference is limited, you will get a separate confirmation and invoice. Please transfer the conference fee to the account stated in the invoice. Furthermore we point out that the fee is due in full amount, if you fail to cancel your registration in writing before April 18, 2008.



Conference venue:

Zentrum für Umweltkommunikation der Deutschen Bundesstiftung Umwelt gGmbH, An der Bornau 2, 49090 Osnabrück.

How to find us:

By train and bus: Arriving at Osnabrück main station, take bus 31/33, 61/62, 81/82 or 91/92 from bus platform 1 (every few minutes) to »Neumarkt«. There, go to platform A2 and take bus 11/12/13 (every 10 minutes) to bus stop »Umweltstiftung« (travel time about 20 minutes).

By car: Osnabrück is conveniently reachable from the Ruhr area and the North German cities on the Autobahn A 1; from the Netherlands and from direction Hanover on the A 30, respectively. From direction Bielefeld, you get here on the highway A 33. See also: www.dbu.de/Anreise

By plane via Airport FMO (Münster/Osnabrück): At FMO a regular bus-shuttle-service (X 150) is available; schedule at **www.fmo.de**. The trip takes around 40 minutes and terminates at Osnabrück main station.

Accommodation:

Travel and accommodation expenses are payable by the participants. Please book hotel rooms on your own. Rooms are available at special rates (breakfast inclusive, except Hotel Remarque, breakfast buffet additional € 16.00/person). Reference: Sustainable Pharmacy.

Steigenberger Hotel Remarque, Natruper Torwall 1, 49076 Osnabrück ++49(0)541|6096-604 87.00 €/single room

Hotel Welp, Natruper Str. 227, 49090 Osnabrück, ++49(0)541|91307-0 55.00 €/single room

Dom-Hotel, Kleine Domsfreiheit 5, 49074 Osnabrück ++49(0)541|35835-0 68.00 €/single room

advena hotel hohenzollern, Theodor-Heuss-Platz 5, 49074 Osnabrück ++49(0)541|3317-0 75.00 €/single room

See also: www.osnabruecker-land.de

Conference fees:

The conference fee amounts to \notin 130.00 containing \notin 91.00 incl. 19 % VAT for food and beverage, which is levied on behalf of the company Food Et Event, Osnabrück. Thus, a tax-free flat rate of \notin 39.00 is part of the conference fee. The conference fee includes a Springer edited conference book which will appear subsequent to the event.

Organisers:

Maximilian Hempel, Deutsche Bundesstiftung Umwelt, Germany

Florian Keil, Institute for Social-Ecological Research, Germany *Klaus Kümmerer*, University Hospital Freiburg, Germany

Conference manager:

Hans-Christian Schaefer, Deutsche Bundesstiftung Umwelt, Germany

www.dbu.de/550artikel27309_788.html

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April 24 and 25, 2008, Osnabrück, Germany

1st International Conference on Sustainable Pharmacy

Strategies and Perspectives for Development, Use and Emission Management of Pharmaceuticals

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KLINIKUM

UNIVERSITA





Deutsche Bundesstiftung Umwelt

Aim of the Conference

Pharmaceuticals are indispensable for a high quality of life. Their use however also has a downside. In recent years a huge amount of data has been collected demonstrating the widespread occurrence of a variety of active drug ingredients in the aquatic environment and sporadically even in drinking water. Being only insufficiently eliminated in conventional sewage treatment, there is growing evidence that the substances and their metabolites have adverse impacts on aquatic organisms on both the individual and the population level. Given the demonstrated environmental relevance of pharmaceuticals the question arises: What are sustainable strategies to adequately address it?

Green Chemistry has convincingly shown that it is mandatory to examine the environmental relevance of all phases of a chemical's life cycle. Sustainable Pharmacy is a new vision that aims to take up the lessons learnt from Green Chemistry. In a broader strategic perspective Sustainable Pharmacy would not only foster the resource efficient development of pharmaceuticals which are optimised for both therapeutic efficacy and degradability in the environment. It would also provide support for the sustainable use of the products and give impetus for the implementation of innovative sanitation concepts in order to reduce emissions already at the source.

The conference will for the first time convene the international state of research and discussion in Sustainable Pharmacy. Within keynote lectures, thematic sessions and panel discussions renowned experts will share their knowledge for the identification of key strategic elements of Sustainable Pharmacy.

The conference equally addresses to scientists from all relevant disciplines and practitioners from the fields of pharmaceutical industry, health care, water management and public authorities.

Thursday, April 24, 2008

08:30	Registration
09:15	Opening
	Maximilian Hempel, Deutsche Bundes-
	stiftung Umwelt (DBU)
	Greetings: Representative of the German
	Ministry for Education and Research (tbc)
09:30	Introduction
	Florian Keil, Institute for Social-Ecological
	Research, Germany
09:45	Keynote Lecture
	»Pharmaceuticals in the Water Cycle:
	Moving from a Problem to a Solution«
	<i>John Sumpter</i> , Brunel University, UK
10:30	Coffee Break
11:00	Panel Discussion I: »Problem Perspectives
	and Need for Action«
	Chair: N. N.
	John Sumpter, Brunel University, UK
	Susanne Schmitz, Federal Environment
	Agency, Germany
	David Taylor, AstraZeneca, UK
	Gottfried Kreutz, Council for International
	Organizations of Medical Sciences,
	Switzerland (tbc)
	Michaela Schmitz, German Association of
	Energy and Water Industries, Germany
12:00	Lunch Break
13:30	Session I: Production of Pharmaceuticals
	Chair: David Taylor, AstraZeneca, UK
	»What we can learn from Green Chemistry«
	James Clark, University of York, UK

Peter Dunn, Pfizer Global R&D, UK

Industrial Practice«

»Synthesis Optimisation: Examples from

14:30	Coffee Break
15:00	Session II: Development of Pharmaceuticals
	Chair: James Clark, University of York, UK
	»Examples from Industrial Practice in Lead
	Development«
	Wolfgang Muster, Hoffman-La Roche,
	Switzerland
	»Rational Design of Molecules by Life Cycle
	Engineering«
	Klaus Kümmerer, University Hospital
	Freiburg, Germany
	»Drug Targeting and Drug Delivery«
	N. N.
16:30	Coffee Break
17:00	Session III: Use and Disposal of Pharma-
	ceuticals
	Chair: N. N.
	»Perspectives for Changing Prescription
	Practices and Disposal Routines«
	Konrad Götz, Institute for Social-Ecological
	Research, Germany
	»Experiences with the Swedish Environ-
	mental Classification Scheme«
	Åke Wennmalm, Stockholm County Council,
	Sweden
	»Pharmacovigilance and Ecopharmacology«
	<i>Giampaolo Velo</i> , Verona University, Italy
18:30	Summary of Day 1
	Florian Keil, Institute for Social-Ecological
	Research, Germany
18:45	End of Day 1
20:00	Conference Dinner

Friday, April 25, 2008

08:30	Registration
09:00	Session IV: Emission Management of
	Pharmaceuticals
	Chair: Engelbert Schramm, Institute for
	Social-Ecological Research, Germany
	»Managing diffuse sources: Alternative
	Concepts for Urban Water Infrastructure«
	Tove Larsen, EAWAG, Switzerland (tbc)
	»The Relevance of different Point Sources«
	Kevin Thomas, Norwegian Institute for Water
	Research, Norway
10:30	Coffee Break
11:00	Panel Discussion II: »Regulation and the
	Market – Drivers and Hurdles for Innovation«
	Chair: Susanne Schmitz, Federal Environ-
	ment Agency, Germany
	Martin Führ, Darmstadt University of Applied
	Sciences, Germany (tbc)
	Andreas Holzer, Bank Sarasin, Switzerland
	Thomas Singer, Hoffman-La Roche,
	Switzerland (tbc)
12:00	Integrative Perspectives
	Chair: Klaus Kümmerer, University Hospital
	Freiburg, Germany
	»An Integrated Management Strategy for
	Pharmaceuticals in the Water Cycle«
	Florian Keil, Institute for Social-Ecological
	Research, Germany
	Lecture and final discussion
13:00	Lunch
14:00	Adjourn

In oder to facilitate lively exchange there is 30 minutes discussion time in each thematic session after the presentations.