

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

Registration: »Sustainable Pharmacy«

please fill in:

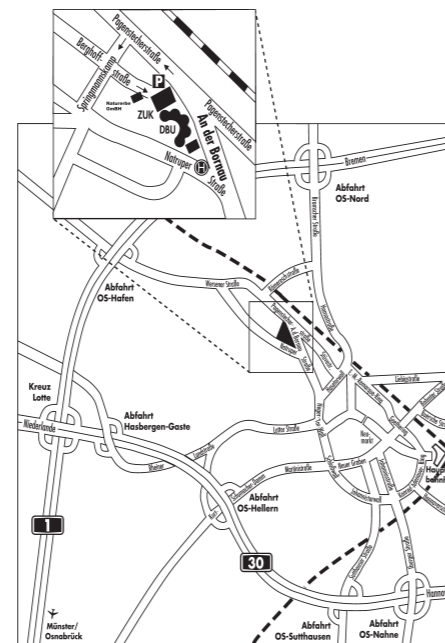
name
first name
affiliation
address
phone
e-mail

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

January 29<sup>th</sup>, 2010

to Nina Weichselfelder, Zentrum für Umweltkommunikation der Deutschen Bundesstiftung Umwelt gGmbH, ZUK, Fax ++49(0)541|9633-990. Please contact us by e-mail (n.weichselfelder@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 February 8<sup>th</sup>, 2010.**



### 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 from bus platform 1 (every few minutes) to »Neumarkt«. There, go to platform A2 and take bus 11R11 (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 highway 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](http://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](http://www.fmo.de). The trip takes around 40 minutes and terminates at Osnabrück main station.

### New! Special discount fares!

Environment-friendly travel with Deutsche Bahn!

For more information: <http://www.dbu.de/traveldiscount>

### 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 90.00 €/single room

Hotel Walhalla, Bierstraße 24, 49074 Osnabrück,  
++49(0)541|3491-0 82.00 €/single room

advena hotel hohenzollern, Theodor-Heuss-Platz 5, 49074 Osnabrück  
++49(0)541|3317-0 85.00 €/single room

Hotel Welp, Natruper Str. 227, 49090 Osnabrück,  
++49(0)541|91307-0 57.00 €/single room

Dom-Hotel, Kleine Domsfreiheit 5, 49074 Osnabrück  
++49(0)541|35835-0 69.00 €/single room

See also: [www.osnabruecker-land.de](http://www.osnabruecker-land.de)

### Conference fees:

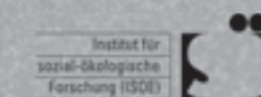
The conference fee amounts to € 140.00 (students € 70) containing € 102.00 incl. 19 % VAT for food and beverage, which is levied on behalf of the company Food Et Event, Osnabrück. Thus, a tax-free flat rate of € 38.00 is part of the conference fee.

[www.dbu.de/550artikel29202\\_135.html](http://www.dbu.de/550artikel29202_135.html)

## 2<sup>nd</sup> International Conference on Sustainable Pharmacy

– Incentives and perspectives –

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## 2<sup>nd</sup> International Conference on Sustainable Pharmacy – Incentives and Perspectives –

Sustainability increasingly emerges as a key issue in pharmaceutical industry along the full life-cycle. Optimising raw material input, synthesis processes and site-specific emission controls become major tasks for sustainable corporate management. As regards the products and their use, however, sustainability in pharmacy is still in its infancy.

It is a scientifically well-known fact that pharmaceuticals may have environmental impacts. Pharmaceutical substances are widespread in the aquatic environment, sometimes at relevant concentrations and are also in drinking water. Adverse effects of certain active substances on the reproduction of water organisms like fish and snails have been documented. The decline of vulture populations in India and Pakistan also shows that some species can react particularly sensitively to specific pharmaceuticals. Given that the consumption of medicinal products continuously increases the precautionary principle urges us to reduce the environmental impacts of pharmaceuticals for the benefit of future generations.

At its core, sustainability in pharmacy means to take care of the whole life-cycle of a medicinal product. But how can this be achieved, what is a proper societal and corporate model for Sustainable Pharmacy and who are the key players to promote and implement it? The aim of the conference is to discuss these questions in an open and creative atmosphere. By integrating the variety of perspectives on the issue, alternatives and chances for more sustainability in the pharmaceutical sector will be identified.

### Monday, February 22, 2010

- 8:30 **Registration**
- 9:00 **Opening**  
**Maximilian Hempel**, Deutsche Bundesstiftung Umwelt (DBU), Germany
- 9:15 **Sustainable Pharmacy: Approaching the Vision**  
**Chair: Florian Keil**, ISOE, Germany  
**Introductory Keynotes by:**  
**David J. Triggle**, State University of New York, USA  
**David Taylor**, wca environment limited  
**Commentators:**  
**Joakim Larsson**, Gothenburg University, Sweden  
**Naomi Lubick**, Science Journalist, USA  
**John Sumpter**, Brunel University, London, UK
- 10:45 **Coffee Break**
- 11:15 **Incentives and Hurdles for a Sustainable Pharmaceutical Industry**  
Panel Discussion  
**Chair: Naomi Lubick**, Science Journalist, USA  
**Alexander Dick**, European Patent Attorney, Germany  
**Andreas Holzer**, Bank Sarasin & Cie AG, Basel, Switzerland  
**Ulrich Petschow**, Institute for Ecological Economy Research, Berlin, Germany  
**Bettina Rechenberg**, Federal Environment Agency, Germany  
**Jean-Marc Vidal**, European Medicines Agency, London, UK
- 12:45 **Lunch Break**
- 14:00 **Sustainable Pharmacy: Realising the Vision**  
**Chair: Klaus Kümmerer**, University Hospital Freiburg, Germany  
**Green metrics for the pharmaceutical Industry**  
**Alexei Lapkin**, University of Bath, UK  
**Developing environmentally sound pharmaceuticals**  
**G. Hamscher, M. Kietzmann**, University of Veterinary Medicine, Hannover, Germany  
**Michael Streek**, Schülke & Mayr GmbH, Germany  
**Use and disposal of pharmaceuticals**  
**Gerald Vollmer**, Joint Research Centre, Ispra, Italy

- 16:00 **Coffee Break**
- 16:30 **Breakout Sessions**  
Parallel workshops on the topics:  
- Definition of Green metrics for the pharmaceutical Industry  
- Prerequisites in R&D for developing environmentally sound pharmaceuticals  
- Sustainable use and disposal of pharmaceuticals
- 18:00 **Sustainable Pharmacy: Proposal for a Definition**  
**Klaus Kümmerer**, University Hospital Freiburg, Germany
- 18:10 **End of Day 1**
- 19:30 **Conference Dinner at the Zentrum für Umweltkommunikation**

### Tuesday, February 23, 2010

- 9:00 **Results of the Breakout Sessions**
- 9:30 **Sustainable Pharmacy: Topics of Special Interest**  
Natural products, patents and sustainability  
**Chair: Florian Keil**, Institute for Social-Ecological Research (ISOE), Germany  
**Alexander Dick**, European Patent Attorney, Germany  
**Joakim Larsson**, Gothenburg University, Sweden  
**Frank Waimer**, Dr. Willmar Schwabe GmbH & Co. KG, Germany
- 10:45 **Coffee Break**
- 11:00 **Building a Road Map for Sustainable Pharmacy**  
World Café along guiding questions with all conference participants
- 12:30 **Closing Remarks**  
**Florian Keil**, ISOE, Germany  
Summary, Definition of Sustainable Pharmacy
- 13:00 **Lunch Break**
- 14:00 **Adjourn**

#### Scientific committee

**Manfred Jung**  
Albert Ludwigs-University Freiburg, Germany

**Naomi Lubick**  
Science journalist, California, USA

**Bettina Rechenberg**  
Federal Environment Agency, Dessau, Germany

**Jürg Oliver Straub**  
F. Hoffmann-La Roche Ltd, Basel, Switzerland

**John Sumpter**  
Brunel University, London, UK

**David Taylor**  
wca environment Ltd, Faringdon, UK

**Gerald Vollmer**  
Joint Research Centre, Ispra, Italy

**Åke Wennmalm**  
Stockholm County Council, Sweden

#### Organising committee

**Maximilian Hempel**  
Deutsche Bundesstiftung Umwelt (DBU), Germany

**Florian Keil**  
Institute for Social-Ecological Research (ISOE), Germany

**Klaus Kümmerer**  
University Hospital Freiburg, Germany