

# codis

---

# 2008

***Compost and digestate: sustainability,  
benefits, impacts for the environment and  
for plant production***

International congress in Solothurn, Switzerland  
27<sup>th</sup> – 29<sup>th</sup> February, 2008

## **Welcome to CODIS 2008**

Composting and digestion of biogenic waste materials and subsequent application of compost and digestate to the soil contribute to the recycling of nutrients and to the production of renewable energy. Moreover, compost and digestate can improve soil fertility and suppress plant diseases. On the other hand, compost and digestate may also contain a variety of pollutants such as heavy metals and organic contaminants, which are hazardous for the soil.

Compost and digestate have been thoroughly investigated within two associated projects entitled "Organic Pollutants in Compost and Digestate in Switzerland" and "Effects of Composts and Digestate on the Environment, Soil Fertility and Plant Health". These projects yielded new insights into the properties of compost and digestate, mainly with regard to biological parameters and the occurrence of both "classic" and "emerging" organic pollutants. The CODIS 2008 congress is the final event of these two projects.

CODIS 2008 is a platform where scientists, practitioners and authorities meet to discuss current issues and future trends.

## **Concept of CODIS 2008**

The main focus of CODIS 2008 will be on the quality of compost and digestate derived from source separated biogenic waste and animal manure. Beneficial and adverse impacts on the environment and plant production due to the application of compost and digestate and the production of renewable energy will be considered.

CODIS 2008 is organized in two parts: In the first two days, the scientific community will have the opportunity to present and discuss their results. These two days comprise plenary sessions, parallel sessions and poster sessions. These two days will be held in English.

The third day is devoted to an encounter between the scientific community, practitioners and representatives of public authorities. It is possible for these people to participate only in the third day, during which presentations will be translated simultaneously into German.

## **Tentative program**

Day 1:	Composts and digestates quality
Session 1:	The state of biogenic waste treatment in Switzerland and Europe
Session 2.1:	Aspects of compost quality
Session 2.2:	Organic pollutants and heavy metals in organic waste products and feedstock materials / Trends and legislation
Day 2:	Impacts of composts and digestates
Session 3.1:	Influence of composts and digestates on soil properties
Session 3.2:	Chemical analysis and sampling
Session 4.1:	Influence of composts and digestates on plant growth and health
Session 4.2:	Input of pollutants to soil due to application of organic waste products / Implications for soil organisms and the food chain
Session 5:	Comprehensive significance of composts and digestates
Day 3:	Science meets practice
Session P1:	Needs and wishes of practitioners and authorities
Session P2a:	Process management and product quality
Session P2b:	Practical options to limit pollutants in the composts and digestates produced
Session P3:	Use of composts and digestates: Choice of product depending on utilization strategy and goal

### **Provisional list of keynote speakers**

- Dr. *Rahel Brändli*, Norwegian Geotechnical Institute (NGI), Oslo, Norway
- Dr. *Hans-Peter Fahrni*, Swiss Federal Office for the Environment, Berne, Switzerland
- Dr. *Enzo Favoino*, Scuola Agraria del Parco di Monza, Italy
- Dr. *Jacques G. Fuchs*, Research Institute of Organic Agriculture FiBL, Frick, Switzerland
- Prof. Dr. *Harry Hoitink*, Department of Plant Pathology and Env. Graduate Studies Program, The Ohio State University, USA
- Dr. *Kerstin Hund-Rinke*, Fraunhofer Institute for Molecular Biology and Applied Ecology, Schmalenberg, Germany
- Michael Kaufmann*, Vice Director of the the Swiss Federal office of Energy, Berne, Switzerland
- Thomas Kupper*, Swiss College of Agriculture, Zollikofen, Switzerland
- Dr. *Jochen Mayer*, Agroscope Reckenholz-Tänikon Research Station ART, Zurich, Switzerland
- Dr. *Gérard Poffet*, Vice Director of the Swiss Federal Office for the Environment, Berne, Switzerland
- Dr. *Andreas Röthlisberger*, Vice president of the Association of Swiss Compost Plants, Aarau, Switzerland
- Dr. *Ena Smidt*, Univ Nat Resources & Appl Life Sci, Inst Waste Management, BOKU, Vienna, Austria
- Dr. *Marco Trevisan*, Istituto di Chimica Agraria ed Ambientale, Università Cattolica del Sacro Cuore, Piacenza, Italy

### **Scientific committee**

#### **Members**

- Dr. *Jacques Fuchs*, Research Institute of Organic Agriculture FiBL, Frick, Switzerland (Co-chair)
- Thomas Kupper*, Swiss College of Agriculture, Zollikofen, Switzerland (Co-chair)
- Prof. Dr. *Werner Bidlingmaier*, Bauhaus-Universität Weimar Fachbereich Bauingenieurwesen, Weimar, Germany
- Dr. *Thomas Bucheli*, Agroscope Reckenholz-Tänikon Research Station ART, Zurich, Switzerland
- Prof. Dr. *Harry Hoitink*, Department of Plant Pathology and Env. Graduate Studies Program, The Ohio State University, USA
- Dr. *Sabine Houot*, National Institute of Agronomical Research, Environment and Arable Crops, Thiverval-Grignon, France
- Prof. Dr. *Heribert Insam*, Innsbruck Univ., Inst. Microbiol, Innsbruck, Austria
- Dr. *Merja Itävaara*, VTT Technical Research Centre of Finland, Espoo, Finland
- Prof. Dr. *Peter Lechner*, Univ Nat Resources & Appl Life Sci, Inst Waste Management, BOKU, Vienna, Austria
- Dr. *Jochen Mayer*, Agroscope Reckenholz-Tänikon Research Station ART, Zurich, Switzerland
- Prof. Dr. *Jörg Metzger*, Institute of Sanitary Engineering, Water Quality and Solid Waste Management, University of Stuttgart, Germany
- Dr. *Konrad Schleiss*, Kompost- und Umweltberatung, Grenchen, Switzerland
- Dr. *Marco Trevisan*, Istituto di Chimica Agraria ed Ambientale, Università Cattolica del Sacro Cuore, Piacenza, Italy
- Dr. *Arthur Wellinger*, NovaEnergie, CH-Aadorf, Switzerland

### **Submission of papers**

Potential authors are invited to submit an abstract related to one of the conference topics. The abstract must include: 1. title, 2. author list and affiliations, 3. contact address of the corresponding author, 4. abstract text of max. 500 words, 5. Key words. Authors should indicate their preferred session and form of presentation (oral or poster). Abstract forms with layout specifications can be downloaded from the conference homepage <http://www.codis2008.ch>. The abstract should be submitted to the following e-mail: [paper@codis2008.ch](mailto:paper@codis2008.ch).

Selected original papers will be accepted for oral or poster presentation. Guidelines for these presentations will be given on the conference homepage. Accepted submissions will be invited to provide an extended abstract for publication (maximum approx. 1000 words – 2 pages) in the printed proceedings.

### **Conference fees**

Registration until 30th November 2007: 390 €

Registration after 30th November 2007: 450 €

Registration for students: 220 €

Registration only 3rd day: 140 €

Conference fees include participation for all days of the conference, conference proceedings, refreshments during coffee breaks, lunch and the conference dinner.

Cancellation of the registration for the conference will be possible until 31st December 2007. Payments will be refunded, except for a charge of 150 €.

Payment after 15th January 2008: + 20 € handling charge

### **Registration**

Online on [www.codis2008.ch](http://www.codis2008.ch) or at the conference secretary's office.

### **Organizing committee**

Dr. *Jacques Fuchs*, FiBL, Frick, Switzerland (chair)

*Nicole Rölli*, FiBL, Frick, Switzerland (secretariat)

Dr. *Kaarina Schenk*, Swiss Federal Office for the Environment FOEN

Dr. *Andreas Röthlisberger*, Association of Swiss Compost Plants ASCP

Dr. *Lucius Tamm* FiBL, Frick Switzerland (congress chair)

### **Conference location**

Landhaus Solothurn, Landhausquai 4, 4500 Solothurn, Switzerland

### **Conference secretary's office**

CODIS, c/o FiBL, Ackerstrasse, 5070 Frick, Switzerland

Tel.: +41 62 865 72 72, Fax: +41 62 865 72 73,

e-mail: [info@codis2008.ch](mailto:info@codis2008.ch)

### **Venue and date**

CODIS 2008 will take place in Solothurn, Switzerland, accessible from Zurich or Basel within one hour, from Wednesday 27st to 29nd February 2008. A facultative excursion is planned on Saturday 1st March.

### **Accommodation**

List a few hotels in Solothurn or refer to the Solothurn Tourism Office (see also [www.codis2008.ch](http://www.codis2008.ch)).

### ***Social programme***

Get together 26th February 2008

Conference dinner on 28th February 2008

Excursion on 1st March 2008 (not included in the conference fee, participation on separate registration)

### ***Key dates***

31st July 2007: Deadline for submission of extended abstracts

30th September 2007: Confirmation of acceptance

30th November 2007: Deadline for submission of final paper

27th February 2008: CODIS 2008 Congress

### ***Language***

The official congress language is English. Simultaneous English/German translation will be provided on the third day (29th February 2008).

### ***Website***

The official congress website is: [www.codis2008.ch](http://www.codis2008.ch)

### ***Organization***

CODIS 2008 is organized by the Research Institute of Organic Agriculture FiBL, Frick, Switzerland

### ***Patronage***

Swiss Federal Office for the Environment FOEN

Swiss Federal Office of Energy SFOE

Swiss Federal Office for Agriculture FOAG

Kompogas AG, Partner of Axpo

Recycling Organic Materials ROM