



Constructed Wetlands: Cross-border Information Transfer

18 to 21 June, 2001

Internationales Begegnungszentrum,
St. Marienthal, Ostritz (Sachsen)

International Workshop and study trip
with participants and lecturers from
Poland, Czechia, Hungary and Germany

Location

Internationales Begegnungszentrum
St. Marienthal
St. Marienthal 10, 02899 Ostritz/Saxony

Contact/Organisation



Förderkreis Bildung Umweltschutz e.V.
Kantstr. 33, D-10625 Berlin/Germany
Tel. +49-(0)30/31 582-420, Fax -422
e-mail: fbu@fbu-ev.de

Information on the project

www.bodenfilter.de

supported by



Monday, 18 June 2001

17.00 to 18.30

Guided tour to the cistercian convent Saint Marienthal

19.00

Welcome Dinner

Tuesday, 19 June 2001

9.00 to 10.30: **4 Country Reports**

Practical knowledge about constructed wetlands in Germany

H. Rustige, AKUT Umweltschutz Ingenieurgesellschaft mbH, Biesenthal

Survey of practical knowledge about constructed wetlands in Poland (waste water and rain water treatment)

Dr. H. Obarska-Pempkowiak, Technical University Gdansk

Survey of the development and practical knowledge about waste water treatment by constructed wetlands in Czechia

T. Kovarikova, Technical University Munich

Natural sewage treatment systems: Hungarian experiences

Ferenc Szilágyi, Technical University Budapest

10.30 to 11.00: **coffee break** and poster session

11.00 to 11.45: **Legal conditions**

State of waste water treatment in rural regions and legal demands in Poland

Prof. Dr. E. S. Kempa, PZITS, Wrocław

Legal conditions for constructed wetlands in Czechia
Jiri Kucera, Water Research Institute T.G.M. Prague

12.00 to 13.00: **Lunch break**

13.00 to 14.30:

Introduction of the posters

14.30 to 15.00: **coffee break** and poster session

15.00 to 16.30: **Projecting, construction and operation of constructed wetlands**

Hydraulics of constructed wetlands under different working conditions

Prof. Dr. R. Blazejewski, August Cieszkowski Agricultural University, Poznan

Hydraulic regulation of constructed wetlands

H. Voermanek, F & N Umweltconsult GmbH, Hannover

Quality assurance of the projecting, construction and operation of constructed wetlands

G. Geller, G. Höner, Ökolog Ingenieurbüro Geller & Partner, Augsburg

Financing of constructed wetlands

Jan Kender (asked), Czech Ministry for the Environment, Prague

18.00: **get-together**

Wednesday, 20 June 2001

9.00 to 10.30:

Economic efficiency of constructed wetlands

Economic efficiency of constructed wetlands

Dr. G. Fehr, F & N Umweltconsult GmbH, Hannover

A comparison of the economic efficiency for small restricted areas and regional solutions in Poland

Prof. K. Miksch, Silesian University of Technology, Gliwice

Financing of waste water investments in Poland

W. Dyki, German Federal Foundation for the Environment, Wroclaw

Economical aspects of the waste water treatment adequate to nature in small settlements in Hungary

Z. L. Lengyel, UKWA Hungarian Commune Water and Wastewater Co., Budapest

10.30 to 11.00: **coffee break**

11.00 to 12.00: **Clogging/Colmation**

Pedological aspects of colmation of constructed wetlands

K.-J. Winter, Dr. D. Goetz, University Hamburg

Mathematical models of soil clogging phenomena

Prof. Dr. R. Blazejewski

The knowledge of colmation of the filtrate milieu in constructed wetlands

Prof. J. Salek, Technical University Brno

12.00 to 13.00: **Lunch break**

13.00 to 13.40: **Hygiene**

Micro biological examinations of the epidemic

hygienical assessment for waste water treatment by constructed wetlands

K. Diehl, Dr. U. Hagendorf

Federal Environmental Agency, Langen

Hygienical assessment for waste water treatment by constructed wetlands in Poland

St. Cytawa (asked), Swarzewo

13.40 to 14.20:

Elimination of nutritive substances I

Nitrogen conversion in constructed wetlands

K. Kayser, Prof. Dr. S. Kunst, University Hannover

Elimination of phosphorus in constructed wetlands

H. Rustige

14.20 to 15.00: **coffee break**

15.00 to 16.00:

Elimination of nutritive substances II

Seasonal degradability of phosphorus

Dr. Z. Sadecka, Technical University, Zielona Gora

Elimination of nitrogen and phosphorus in constructed wetlands

Jiri Kucera, Water Research Institute T.G.M. Prague

The influence of the technical solution of constructed wetlands on oxygen supply and nitrification processes

Prof. J. Salek

16.00 to 17.00: **Discussion and conclusion**

19.00: **get-together**

Thursday, 21 June 2001

9.00 to 15.30:

Study trip

Aim of the three day seminar

The most important aim of the cooperative research project, which is sponsored by the German Federal Foundation for the Environment, is the development of the use and the technical state of constructed wetlands as an environmentally friendly, economical technology.

Constructed wetlands are adapted technologies, which, concerning sustainable development, represent waste water treatment adequate to nature as a convincing, environmentally friendly, economical technology for rural areas.

The seminar in Saint Marienthal will give opportunity to transfer scientific, technological and engineering know how. It shall open new possibilities of getting into contact across the borders for further fields of research and business.

Experts from Poland, Czechia and Hungary will, together with the partners of the cooperative research project „Constructed Wetlands“, lecture and discuss the best available technology and the actual level of research.

The main thematic foci of the seminar concerning the present best available technology, possible results in waste water purification, basis of assessment, possibilities of usage, and quality assurance will be supplied and broadened by the attending poster session.

Questions of the usage of constructed wetlands under different climatic conditions will be drawn into special attention.

The operation of constructed wetlands will be demonstrated by visiting exemplary plants.

Participants

According to an effective transfer of know how, the number of participants is limited to 80 people maximum.

| |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Diary |
| The Usage of Constructed Wetlands in Practice Workshop and study trip (language: German) |
| Dates 12 - 14 June 2001, Plauen 3. - 7. July 2001, Memmingen 11. - 13. September 2001, Schwerin 25. - 27. September 2001, Goslar 22. - 24. October 2001, Neuruppin 6. - 8. November 2001, Marburg |
| Topics Survey of the techniques of constructed wetlands Comparison of efficiency Legal conditions and organisational variants Phases of decision, projecting, construction and operation of constructed wetlands The seminars differ from each other regionally in the choice of the lecturers and the destinations of the study trips. |
| Seminar fee 430,00 DM/219,86 Euro (excl. VAT) |
| Publications „Forschungsansätze und Ergebnisse des Verbundprojektes Bewachsene Bodenfilter“ Hrsg. Dr. G. Fehr, publisher: Schriftenreihe Förderkreis Bildung Umweltschutz e.V. (Language: German) |
| costs 40 DM/20,45 Euro (excl. VAT) |
| subscription Förderkreis Bildung Umweltschutz e.V. Kantstr. 33, 10625 Berlin Tel. +49-(0)30/31 58 24 20 Fax +49-(0)30/31 58 24 22 e-mail: fbu@fbu-ev.de |

Notice for registration

Seminar fee
participants from Poland, Czechia and Hungary:
60,00 DM/30,68 Euro (excl. VAT)
The seminar fee includes extensive seminar documents as well as the accommodation and catering during the seminar and the study trip.

German participants:
90,00 DM/46,02 Euro (excl. VAT)
The seminar fee includes extensive seminar documents as well as the catering during the seminar and the study trip.

In the case of cancellation of participation till 8 working days before the seminar, a handling charge of 20 DM/10,23 Euro will be raised. In case of later cancellation or non-attendance the complete seminar fee will be charged. If so, the seminar documents will be sent after the seminar fee is received.

Of course, the reserved place is transferable and can be claimed by a replacement of the registered person.

We will send a plan for your journey enclosed to the confirmation of your registration.

You can get a confirmation of your attendance of the seminar after the successful participation.

Changes in the programme are subject to alterations.

I do research in the following topic:
.....
.....
.....

and would like to display a poster.
(The choice of the posters is reserved to the organizer. You will be informed by 8 June 01.)

Registration

per Fax to: +49-(0)30/31 582-422

Cross-border information transfer
18 to 21 June 2001
St. Marienthal, Ostritz/Saxony

Hereby, I register obligingly for the seminar.
The seminar fee of 60,00 DM/30,68 Euro, and 90,00 DM/46,02 Euro (zzgl. 16% MwSt.), respectively, will be paid immediately after receiving the confirmation of my registration for the seminar.

.....
date, place **signature**

.....
name, academic title

.....
surname

.....
enterprise/authority

.....
department

.....
street/P.O.BOX

.....
postal code and place

.....
telephone telefax

.....
e-mail