



Ultrasound Workshop Feb 2003

Dirk European Ltd. is organizing a 4-day trip to Germany for engineers and specialists with an interest in ultrasound applications in wastewater treatment.

We are happy to announce our second trip to Germany. The programme is aimed at owners and operators of STW. It's aims are to provide a knowledge transfer between owners and operators of sewage works, and to provide further insight into the equipment and technology.

The trip includes:

- a visit to the premises of Dr Hielscher GmbH (the manufacturer of the hardware)
- a one-day conference at IKTS Fraunhofer Institute describing the theory and practical application of the technology
- 2 days visiting STW.

Travel Arrangements:

Getting there:

Flight to Berlin. A member of the Dirk Team will pick you up.

Return Flight:

The return flight will be from Frankfurt.

Hotels:

Hotels will be booked by Dirk in the name of the attendee and will be paid for by the attendee.

Travel:

Dirk will organise the travel within Germany (coach).

If you are interested in participating in this event, then please send an email to the following address: (gsdirk@dirkgroup.com).

We look forward to seeing you in Germany!

Yours sincerely,

George S. Dirk
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29 – 31 Woodchurch lane
Prenton / Birkenhead
Wirral CH42 9PJ

Tel: 0151 6088552

Fax: 0151 6087579

Email: <mailto:gsdirk@dirkgroup.com>



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Conference Costs:

The conference costs 100 Euro. (£65)

Please register here: http://www.ikts.fhg.de/events/industrietag_02/anmeldung.html

It is all in German so please fill in as indicated in this screenshot. Once all filled in please press the "Senden" button.

The screenshot shows a Microsoft Internet Explorer browser window displaying a registration form. The browser's address bar shows the URL: http://www.ikts.fhg.de/events/industrietag_02/anmeldung.html. The page content includes the Fraunhofer IKTS logo, the title "Anmeldeformular 3. Industrietag Betriebskostenreduzierung auf Kläranlagen", and a "Teilnehmerservice" section with contact information for Andrea Höhne. The registration form itself contains fields for Name (Surname and Name), Firma, Straße, Nummer, PLZ, Ort, Telefon, Telefax, and E-Mail. There are also radio buttons for payment options: "Ich zahle bar.", "Ich zahle per Rechnung.", "Teilnahmegebühr Industrie 100 EUR.", and "Teilnahmegebühr Öffentlicher Dienst, Universitäten, Hochschulen 50 EUR.". At the bottom of the form are two buttons: "SENDEN" and "Zurücksetzen".

Fraunhofer IKTS

Anmeldeformular 3. Industrietag Betriebskostenreduzierung auf Kläranlagen

Teilnehmerservice

Andrea Höhne
Telefon: +49 351 2553 516
Telefax: +49 351 2554 118
email: Andrea.Hoehne@ikts.fhg.de

Name: Surname
Vorname: Name
Firma: Company
Straße, Nummer: Street and number
PLZ, Ort: Postcod Town
Telefon: Telephone
Telefax: Fax
E-Mail: Email

Ich zahle bar.
 Ich zahle per Rechnung.
 Teilnahmegebühr Industrie 100 EUR.
 Teilnahmegebühr Öffentlicher Dienst, Universitäten, Hochschulen 50 EUR.

SENDEN Zurücksetzen

You will be sent an Invoice from the Fraunhofer IKTS.



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General Program:

Date	Location	Purpose
02.02.03 (early Evening)	Marriot Courtyard Teltow, Berlin	Introduction
03.02.03 (AM)	Dr. Hielscher Berlin	Dr. Hielscher is the manufacturer of the Ultrasound hardware. We will be shown around the workshop and have a short presentation about the development side.
03.02.03 (PM)	Westin Hotel Dresden	Drive to Dresden. Dinner and walk around historic Dresden
04.02.03 (All day)	IKTS Dresden	All day conference at the Fraunhofer institute. See separate agenda.
04.02.03	Westin Hotel Dresden	Dinner with members of the Fraunhofer Institute.
05.02.03 (Noon)	Mannheim	Tour and presentation at Mannheim STW.
05.02.03	Saarlouis	Tour and presentation at Wallerfangen STW. This plant has two ultrasound installations. One prior to digestion the other in the ASP.
05.02.03	Sarbruecken – Hotel am Triller	Final dinner and general socialising
06.02.03 (Noon)	Darmstadt	Tour and presentation at Darmstadt STW. This plant has Ultrasound prior to digestion and will soon have a co-digestion ultrasound installation.
06.02.03 (16:00)	Drop of at Frankfurt Airport	



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Institut
Keramische Technologien
und Sinterwerkstoffe

1 Day Conference: "Reducing operating costs on STW's"

IKTS Dresden

Program:

Time	Topic
08:45	Registration Welcoming of Delegates
09:00	Presentation of the IKTS Dresden by the Dean of the Institute Herr Prof. Dr. Waldemar Hermel, Fraunhofer IKTS Dresden
09:10	Fraunhofer IKTS as a research partner for Environmental solutions Herr Dr. Udo Gerlach, Fraunhofer IKTS Dresden
09:20	Wastewater and Sludge innovations Herr Dr. Martin Wagner, WAR TU Darmstadt
09:50	Operating Problems with Digesters – causes and solutions Herr Prof. Helmut Kapp, Fachhochschule Biberach
10:20	Coffee break



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Time	Topic
10:40	Review of part stream disintegration after 2-3 year full commercial operation. - Outlook Herr Dr. Eberhard Friedrich, IWE.Tec GmbH, Radebeul
11:10	Reducing operating costs through part stream disintegration in Mannheim. Herr Dipl.-Ing. Andreas Hein, Stadtentwässerung Mannheim
11:40	Advantages of sludge disintegration with thickened surplus activated sludge – multistage disintegration. Frau Dr. Hannelore Friedrich, Fraunhofer IKTS Dresden
12:10	Mechanical disintegration – Co-digestion of biological material opportunities and chances. Frau Dr. Annegret Potthoff, Fraunhofer IKTS Dresden
12:40	Lunch



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- 13:30 **Granumetric, electrokinetic and microbiological activity benchmarks – a useful instrument for the evaluation of operating cost savings.**
Herr Dipl.-Ing. Burkhardt Faßauer,
Fraunhofer IKTS Dresden
- 14:00 **Fibrous Micro organisms- causes and solutions to remove them.**
Frau Susanne Zander-Hauck,
Rverband Essen
- 14:30 **Fighting floating and bulking sludge – Full-scale Commercial results.**
Frau Dr. Karin Jobst,
IWE.Tec GmbH, Radebeul
- 15:00 **Video presentation**
Workgroup "Umweltverfahrenstechnik" of the Fraunhofer IKTS
Dresden,
IWE.Tec GmbH, Radebeul im Blickfeld
- 15:15 **Closing discussion**



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The Route:

