

Scientific Program

Third Late Summer Workshop “Basics in water treatment processes“ Castle Maurach, Lake of Constance, Germany

03.10.2006

Tuesday

16.00 – 20.00

Registration

20.00

Dinner

04.10.2006

Wednesday

8.00 – 9.00

Breakfast

9.00 – 9.15

Welcome and Opening Remarks: M. Jekel

Session I

Chair: E. Worch

9.15 – 10.15

J. Edzwald, Amherst, USA

Coagulation

11.15 – 11.45

Coffee Break

10.45 – 11.45

D. Lawler, Austin, USA

Deep bed filtration

11.45 – 12.30

Poster session

12.30 - 14.00

Lunch

Session II

Chair: M. Jekel

14.00 – 15.00

R. Ben Aim, Toulouse, France

Low Pressure Membranes (MF, UF)

15.00 – 15.30

Coffee Break

15.30 – 16.30

J. Drewes, Golden, USA

High Pressure Membranes (NF, RO)

16.30 – 16.50

J. Haberkamp, Berlin

Protein related organic fouling of ultrafiltration membranes

16.50 – 17.10

A. Lerch, Dresden

CFD Modelling of the flow field and particle / floc transport in single UF/MF membrane capillaries driven in inside-out mode

17.10 – 17.30

F. Saravia, Karlsruhe

Removal of pharmaceuticals using membrane-adsorption hybrid systems: the role of NOM and particles

17.30 – 19.00

Visit Birnau (Monastery Maurach)

19.00

Dinner

21.00

Get-together

05.10.2006**Thursday****8.00 – 9.00****Session III****9.00 – 10.00****10.00 – 10.20****10.20 – 10.40****10.40 – 11.00****11.00 – 12.00****12.00 – 13.30****Session IV****13.30 – 14.30****14.30 – 14.50****14.50 - 15.10****15.10 - 15.30****15.30 – 15.50****15.50 – 16.10****16.10 – 18.00****19.00 – 21.00****21.00****Breakfast****Chair: F. H. Frimmel****U. von Gunten, Dübendorf, Switzerland****Oxidation****J. Donner, Dresden, Germany**

Catalytic oxidation of hydrogen sulfide during drinking water treatment

T. Glauner, Karlsruhe, Germany

Electrochemical elimination of iodinated x-ray contrast media

Coffee Break**E. Worch, Dresden, Germany****Adsorption****Lunch****Chair: G. Amy****W. Hoell, Karlsruhe, Germany****Ion exchange****P. Marcus, Karlsruhe, Germany**

A new and easy-to-use method for evaluating the removeableness of synthetic organic contaminants in activated carbon filters

Coffee Break**I. Ivancev-Tumbas, Mülheim, Germany**

Removal of p-nitrophenol by combined process of membrane filtration and powdered activated carbon adsorption

A. Sperlich, Berlin, Germany

Adsorption kinetics of Granular Ferric Hydroxide (GFH)

C. Bahr, Berlin, Germany

Uranium removal during drinking water treatment:

Poster Session**Dinner****Get-together****06.10.2006****Friday****7.30 – 8.30****Session V****8.30 – 9.30****9.30 – 10.30****10.30 – 11.00****Breakfast****Chair: W. Höll****G. Amy, Delft, Netherlands****Bank filtration and Soil Aquifer Treatment****P. Huck, Canada****Biofiltration****Coffee Break**

11.00 – 11.20	S. Velten, Dübendorf, Switzerland Rapid and direct estimation of the active biomass on granular activated carbon through adenosine tri-phosphate (ATP) determination
11.20 – 12.20	M. Prevost, Montreal, Canada Impact of water quality on disinfection by chlorine, chlorine dioxide and UV
12.20 -12.40	D. Xu, Dresden, Germany Modeling the Influence of pH and Residence Time on Chlorine Dioxide Production Efficiency
12.40 – 13.00	Final Discussion
13.00	Lunch
14.00	Departure or Visit to the Lake of Constance Water Works in Sipplingen

Remarks:

- Invited speakers have 1 hour time, including 10 – 15 min of discussion
- Short presentations are 15 min plus 5 min discussion

