

## Scientific Program

Second Late Summer Workshop “Monitoring toxic effects in aquatic systems“

### 28.09.2003

16.00 – 20.00 Registration

20.00 Dinner

### 29.09.2003

7.30 – 8.30 Breakfast

8.30 – 8.45 Opening Remarks  
F.H. Frimmel, B. Hock

**Session Genotoxicity** Chair: T. Grummt

8.45 – 9.30 S. Knasmüller, Wien, Austria  
*Measurement of genotoxicity in aquatic systems with special emphasis on plant systems*

9.30 – 10.00 N. Schweigert, Dübendorf, Switzerland  
*Ecotoxicological risk assessment of surface waters: concept and first results of a modular approach integrating in vitro methods*

10.00 – 10.30 M. Schmitt, Bonn  
*In vivo detection of genotoxic activity using Saccharomyces cerevisiae*

10.30 – 11.00 Coffee Break

11.00 – 11.45 P. White, Ottawa, Canada  
*The sources and potential hazards of mutagens in aquatic systems*

11.45 – 12.30 Discussion Panel: Strategies for assessing toxicants  
T. Grummt, S. Knasmüller, P. White

12.30 – 14.00 Lunch

**Session Neurotoxicity**

Chair: H. Kretzschmar

14.00 – 14.45

H. Kretzschmar, München  
*Copper and neurotoxicity*

14.45 – 15.30

G. Multhaup, Berlin  
*Neurotoxicity in Alzheimer's disease*

15.30 – 16.00

Coffee Break

**Poster Session**

16.00 – 17.00

B.J. Majer, Wien, Austria  
*Genotoxic effects of water disinfection byproducts detected by the Tradescantia micronucleus assay*

M. Alberti, München  
*Assessment of estrogenicity in water samples by gene expression patterns*

Ch. Schneider, Bonn  
*Optimized immunoassays as sensitive tools for monitoring the contraceptive compound ethinylestradiol in the aquatic environment*

P. Kern, Friedrichshafen  
*Accumulation of toxic effects during space-flight missions*

R. Alexy, Freiburg  
*Identification and characterisation of the risk fields connected with the entry of antibiotics into the aquatic environment*

K.-W. Schramm, Neuherberg  
*Effects of anthropogenic endocrine disruptors on the biocenosis of aquatic model ecosystems*

18.00– 19.00

Visit to Birnau (Monastery Maurach)

19.30

Dinner

21.00

Get-together

**30.09.2003**

8.00 – 9.00                      Breakfast

**Session Neurotoxicity (cont.)**    Chair: H. Kretzschmar

9.00 – 9.45                      H.H. Dieter, Berlin  
*Neurotoxicological potential of relevant metals in drinking water*

**Session Endocrine Disruptors**    Chair: B. Hock

9.45 – 10.30                      J. Sumpter, Uxbridge, UK  
*Endocrine disruptors: overview*

10.30 – 11.00                      Coffee Break

11.00 – 11.30                      M. Seifert, München  
*Environmental genomics for the assessment of endocrine disruption*

11.30 – 12.00                      M. Müller, Karlsruhe  
*HPTLC-YES – A new bioautographic method for the detection of xenoestrogens in water samples*

12.00 – 13.30                      Lunch

13.30 – 14.15                      H. Segner, Bern, Switzerland  
*Endocrine disruptors: impact on ecosystems*

**Session Algal Toxins and Dioxins**    Chair: R. Niessner

14.15 – 15.00                      I.R. Falconer, Adelaide, Australia  
*Is there a human health hazard from microcystins in the drinking water supply?*

15.00 – 15.30                      M.G. Weller, München  
*Multidimensional analysis of cyanobacterial toxins*

15.30 – 16.00                      Coffee Break

16.00 – 16.30                      S.J. Höger, Konstanz  
*Possible health risks arising from consumption of blue-green algae food supplements*

|               |                                                                                                                                                        |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16.30 – 17.00 | B. Ernst, Konstanz<br><i>Toxins of <i>Planktothrix rubescens</i> and their subchronic impact on European whitefish (<i>Coregonus lavaretus</i> L.)</i> |
| 17.00 – 17.30 | M. Filipic, Ljubljana, Slovenia<br><i>The role of reactive oxygen species formation in microcystin-induced toxicity and genotoxicity</i>               |
| 17.30 – 18.00 | C.K. Schmidt, Karlsruhe<br><i>Vitamin A homeostasis – a target in dioxin toxicity and its application as a biomarker</i>                               |
| 18.00 – 19.00 | Dinner                                                                                                                                                 |
| 19.30         | Organ Concerto in Birnau                                                                                                                               |
| 21.00         | Get-together                                                                                                                                           |

## **01.10.2003**

|                                        |                                                                                                                          |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 7.30 – 8.30                            | Breakfast                                                                                                                |
| <b>Session Immunotoxicity</b>          | Chair: T. Grummt                                                                                                         |
| 8.30 – 9.15                            | H. Behrendt, München<br><i>Immunotoxicology: general introduction</i>                                                    |
| 9.15 – 10.00                           | J.T. Schumacher, Braunschweig<br><i>Influence of toxins and organic pollutants on the phosphoproteome of macrophages</i> |
| 10.00 – 10.30                          | Coffee Break                                                                                                             |
| <b>Session Reproductive Toxicology</b> | Chair: F.H. Frimmel                                                                                                      |
| 10.30 – 11.00                          | I. Mayer, Bergen, Norway<br><i>Bioassays for reproductive toxicology</i>                                                 |

**Session Assessment of effects**

Chair: F.H. Frimmel

11.00 – 11.30

S. Gimeno, Brussels, Belgium

*Industry approach to assess effects of chemicals in the aquatic environment*

11.30 – 12.00

Final Discussion

Prof. F.H. Frimmel, Dr. T. Grummt, Prof. B. Hock,  
Prof. R. Nießner

12.00

Lunch

Departure

The Second Late Summer Workshop has been sponsored by

- Water Chemical Society - Division of the German Chemical Society
- Procter & Gamble, Schwalbach am Taunus