

# Real time Biomonitoring to Check Water Quality

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## **Biographical sketch of the Author**

Christian Moldaenke is the general manager of the company bbe Moldaenke with locations in Cincinnati (Ohio) and Kiel (Germany). Mr. Moldaenke is a biophysicist and he has been working in the field of algae analysis since 1989 and biomonitoring since 1993. bbe Moldaenke offers a range of real time biomonitoring products. These products often resulted from research programs carried out in co-operation with universities, institutes and state agencies.

## **Abstract**

The presentation shows how the use of real time biomonitors can minimize the risk of adverse impacts from hazardous compounds in water through early detection. Biomonitors serve as excellent early warning systems because they work continuously rather than at random sampling intervals. The goal of biomonitors is to protect water systems and their consumers from any damage that might be caused by hazardous compounds. Biomonitors use organisms to indicate changes in water quality due to the presence of toxic substances. The organisms (e.g. Daphnia, fish) are very sensitive to many harmful substances. Some practical information about the operation of biomonitors will be given and results from measurements will be presented. The advantages of using biomonitors for the protection of drinking water systems will be demonstrated.