



## **P R E S S   I N F O R M A T I O N**

**5/2004**

### **Monitoring of wastewater treatment plant performance**

#### **13th European Water, Wastewater and Waste Symposium**

**Hennef, 29 November 2004 – Five lectures on the monitoring of wastewater treatment plant performance are on the programme of the 13<sup>th</sup> Water, Wastewater and Waste Symposium in München on 26 April 2005, which takes place within the framework of IFAT 2005, the international specialist trade fair for water, wastewater, waste and recycling. The symposium, organised by the European Water Association (EWA) in collaboration with the German Association for Water, Wastewater and Waste (DWA, formally ATV-DVWK) from 25 to 28 April 2005 is, this time, under the motto “Clean environment for a growing Europe”. For operators of wastewater treatment facilities the monitoring of wastewater treatment plant performance, in addition to the technical aspect, is also of particular significance from the legal and the economic aspect.**

#### **Monitoring strategy for the maintaining of the new specifications of the European Drinking Water Directive**

*Bénédicte Welte* (SAGEP, Paris/France), in the first presentation of this block of subjects, introduces the monitoring of drinking water using the example of the city of Paris. The monitoring strategy selected by the SAGEP, as water supplier of the city of Paris, is based on the results of investigation both from the



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DWA German Association for Water, Wastewater and Waste \* Theodor-Heuss-Allee 17 \* D-53773 Hennef \*  
Press Office: Dr. Frank Bringewski, Tel.: +49 (0) 2242/872-190, Fax: 872-151, E-Mail: bringewski@dwa.de, Internet: www.dwa.de



processing of water as well as from water distribution in the water network. Relevant for the monitoring tasks put forward are the French provisions on health precautions. In this presentation the concept of online sensors as well as manual monitoring is put forward and explained by means of examples.

### **Efficiency through application of online quality indicators**

The concept presented by *Jean-Marc Audic* (SUEZ Environment Cirsee, Le Pecq/Frankreich) of the monitoring of wastewater treatment plants using selected quality indicators is based above all on the employment of special, cost-effective and robust sensors together with a suitable evaluation and control software. In this lecture primarily the selected concept is presented in order, subsequently, to demonstrate the practical experience of the application in a wastewater treatment plant with 90,000 PT.

### **Cost-benefit analysis for the use of sensors in wastewater treatment**

A cost-benefit analysis for the use of sensors in wastewater treatment is presented by Dr. *Peter Baumann* (wave GmbH, Stuttgart) in his lecture. There are many good reasons for the employment of an online analysis in wastewater treatment, inter alia the reduction of the precipitants used as well as the better usage of the carbon contained in the wastewater with nutrient elimination. The lecture, using examples of phosphate precipitation and denitrification, presents how the economical limits of the employment of such sensors in wastewater treatment can be determined.





### **Flow measurement – an important instrument for the monitoring of wastewater treatment plants**

These days flow measurements are indispensable for the monitoring of wastewater treatment plants. Due to the increased requirements through stricter legal provisions the correct recording of flows meanwhile is of great relevance both for the operator as well as for the monitoring authority. Within the scope of his lecture Dr. *Bert Bosseler* (IKT Gelsenkirchen) presents an investigation in which 40 wastewater treatment plants are examined with regard to their installations for measurement.

### **Respirometric methods in practice**

In the last presentation of this block Dipl.-Ing. *Jan Svojilka* (Department of Water Engineering and Environmental Engineering Matters in the Prague Institute for Chemical Engineering, Prague/Czech Republic) examines the respirometric methods with the monitoring of wastewater treatment plants, a simple and reliable process for the determination of the activity of micro-organisms. The results presented here originate from the investigation of wastewater treatment plants which had as aim the application of respirometric methods in particular operational situations (e.g. inlet phase of the plant) as well as difficult measurement situations (e.g. nitrification rates during nitrification using bio-augmentation).

In addition to the subject block “Monitoring of wastewater treatment plant performance“, in the field of water/wastewater the subject blocks “Membrane technology“, “Water management in central and eastern Europe“, “Public-Private Partnerships“, “Rehabilitation of sewers” as well as two workshops on the subjects of the Middle and Far East are also offered.





The programme of the symposium can be obtained from the DWA, Barbara Kirstein, Tel.: +49 (0)2242/872-181, E-Mail: [kirstein@dwa.de](mailto:kirstein@dwa.de) and can also be called up in the Internet under [www.IFAT.de](http://www.IFAT.de) and [www.dwa.de](http://www.dwa.de).

The **German Association for Water, Wastewater and Waste (DWA, formerly ATV-DVWK)**, is the spokesman in Germany for all universal questions on water and is involved intensively in the development of secure and sustainable water management. The ca. 15,000 members represent the experts and executive personnel from municipalities, universities, engineer offices, authorities and businesses. ([www.dwa.de](http://www.dwa.de)).

The **European Water Association (EWA)** is one of the most important technical-scientific associations in Europe in the field of water. With 25 national member associations and a growing number of business members the EWA covers almost all European countries. The Association offers its members a forum for the discussion of central technical and political questions. This takes place through conferences, workshops, meetings and expert groups as well as in regular publications. Via the almost 25 national member associations the association represents more than 55,000 experts from the complete water branch. ([www.EWAonline.de](http://www.EWAonline.de)).

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