

## PUBLICATIONS

Prof. Dr. Uwe Strotmann

### 1. Peer reviewed articles

**Strotmann, U., Reuschenbach, P., Schwarz, H. and Pagga, U. (2004).** Development and evaluation of an online CO<sub>2</sub> evolution test and a multicomponent biodegradation test. *Appl. Env. Microbiol.* 70(8): 4621-4628.

**Oliveira, C.A., Araujo, C.V.M., Nascimento, R.B., Strotmann, U.J. and da Silva, E.M. (2004).** Utilization of respirometry in the reduction of toxicity of the matter organic load in industrial effluents. *Chemosphere*, in press.

**Gendig, C. Agnoli, F., Domogala, G., Pagga, U., Strotmann, U. (2003).** Evaluation and further development of the activated sludge respiration inhibition test. *Chemosphere* 52: 143-149.

**Reuschenbach, P., Pagga, U., Strotmann, U. (2003).** A critical comparison of respirometric biodegradation tests based on OECD 301 and related test methods. *Water Research*, 37:1571-1582.

**Pagga, U. and Strotmann, U. (1999).** Bacterial toxicity - standardised test methods and practical experiences. *gwf-Wasser-Abwasser* 140: 827-835 (in German).

**Strotmann, U.J., Gendig, C., Geldern, A., Kuhn, A. and Klein, S. (1999).** Optimization of a respirometric method for the determination of the heterotrophic yield of activated sludge bacteria. *Chemosphere* 38: 3555-3570.

**Strotmann, U., Roll, J., Gendig, C., Czycholl, C. and Broja, S. (1998).** Bacterial biotest systems for the assessment of waste toxicity. *UWSF-Z. Umweltch. Ökotoxik.* 10: 271-275 (in German).

**Strotmann, U.J. and Windecker, G. (1997).** Kinetics of ammonium removal with suspended and immobilised bacteria in different reactor systems. *Chemosphere* 35: 2939-2952.

**Strotmann, U.J. and Pagga, U. (1996).** A growth inhibition test with sewage bacteria. Results of an inter-laboratory ring test in 1995. *Chemosphere* 32:921-933.

**Strotmann, U.J. and Eglsäer, H. (1995).** The toxicity of substituted phenols in the nitrification inhibition test and luminescent bacteria test.

Ecotoxic.Environ.Safety 30:269-273.

**Strotmann, U.J., Schwarz, H and Pagga, U. (1994).** The CO<sub>2</sub>/DOC-combination test - a new method to determine the biodegradability of chemical compounds. Chemosphere 30: 525-538.

**Strotmann, U.J., Keinath, A. and Hüttenhain, S.H. (1994).** Biological test systems for monitoring the operation of wastewater treatment plants. Chemosphere 30:327-338.

**Strotmann, U.J., Egsäer, H. and Pagga, U. (1994).** Development and evaluation of a growth inhibition test with sewage bacteria for assessing bacterial toxicity of chemical compounds.  
Chemosphere 28:755-766.

**Strotmann, U.J., Eismann, F., Hauth, B. and Bias, W.R. (1993).** An integrated test strategy for the assessment of anaerobic biodegradability of wastewaters.  
Chemosphere 26:2241-2254

**Strotmann, U.J., Weberruß, U. and Bias, W.R. (1993).** Biodegradation of morpholine in several biodegradation tests and in wastewater treatment plants.  
Chemosphere 26:1729-1742

**Strotmann, U.J., Butz, B. and Bias, W.R. (1993).** The dehydrogenase assay with resazurin: practical performance as a monitoring system and pH-dependent toxicity of phenolic compounds.  
Ecotoxic.Environ.Safety 25:79-89

**Strotmann, U., Zaremba, S. and Bias, W.R. (1992).** Short-term toxicity tests for the measurement of toxicity of chemicals towards activated sludge.  
Hydrochim.Hydrobiol.Acta 20:136-142 (in German).

**Strotmann, U.J., Pentenga, M. and Janssen, D.B. (1990).** Degradation of 2-chloroethanol by wild type and mutants of *Pseudomonas putida* US2.  
Arch.Microbiol. 154:294-300

**Strotmann, U. and Rösenthaller, R. (1987).** A method for screening bacteria aerobically degrading chlorinated short-chain hydrocarbons.  
Curr.Microbiol. 15:159-163

## **2. Reviews**

**Strotmann, U.J. als Mitglied der ATV-AG 7.5.1 (2004).** Anaerobe Testverfahren zu Abbaubarkeit, hemmung und Aktivität. Korrespondenz Abwasser (submitted).

**Hock, B. Hansen, P.D., Krotzky, A., Meitzler, L., Meulenberg, G., Müller, G., Obst, U., Spener, F., Strotmann, U., Weil, L. and Witmann, C. (1996)**

Standardization of immunoassays for water and soil analysis. In: Herbicide metabolites in surface waters and groundwater (eds. M.T. Meyer and E.M. Thurman) ACS Symposium Series 630.pp. 53-62.

**Strotmann, U.J. als Mitglied der ATV-AG 7.5.1 (1996).** Praktische Empfehlungen und Hinweise zur Planung und zum Betrieb von Anaerobanlagen. Korrespondenz Abwasser

**Strotmann, U.J. als Mitglied der ATV-AG 2.1.6. (1996).** Bedeutung der Abwasserfiltration aus der Sicht der Gewässer. Korrespondenz Abwasser 44: 519-523.

**Strotmann, U.J. and Weisbrodt, W. (1994).** Wastewater treatment and integrated environmental protection at the BASF AG in Ludwigshafen, Germany. Wat.Sci.Tech. 29: 185-192.

**Strotmann, U.J. als Mitglieder der ATV-AG 2.1.4 (1994).** Nitrit in Fließgewässern. Korrespondenz Abwasser 11/94: 2069-2076.

**Strotmann, U.J. als Mitglieder des ATV-FA 7.5. (1994).**

Geschwindigkeitsbestimmende Schritte beim anaeroben Abbau von organischen Verbindungen in Abwässern. Korrespondenz Abwasser 1/94: 101-107.

**Strotmann, U.J.** Untersuchungen zur Toxikologie und zum Abbau von kurzkettigen Chlorkohlenwasserstoffen.(1988). Dissertation der mathematisch-naturwissenschaftlichen Fakultät der Universität Münster.

### **3. Conference speeches and poster presentations**

**Gendig, C. Agnoli, F., Bettiol, C., G., Pagga, U., Strotmann, U. (2002).** Evaluation and further development of the short-term respiration test (ISO 8192). SETAC Conference Vienna

**Reuschenbach, P., Pagga, U., Strotmann, U. (2002).** A critical comparison of respirometric biodegradation tests based on OECD 301 test methods. SETAC Conference Vienna

**Strotmann, U. (2000).** Modern biotechnology: production of amino acids by bacteria. Invited speech at the University Ca Foscari, Venice, Italy on 29.05.2000

**Strotmann, U.** Weitere Entwicklung von biologischen Abbautestverfahren unter

Berücksichtigung der Respirometrie.  
Symposium am 26.09.2000 bei der BASF AG, Ludwigshafen

**Strotmann, U.J., Domogala, G., Gendig, C. and Kluth, C. (2000).** Development of a long-term respiration inhibition test for assessing bacterial toxicity of chemical compounds.  
Third SETAC World Congress, Brighton, U.K.

**Strotmann, U.J., Pagga, U. and Reuschenbach, P. (2000).** Development and evaluation of a new multi-component biodegradation test to determine biodegradability of chemical compounds.  
Third SETAC World Congress, Brighton, U.K.

**Strotmann, U.J., Domogala, G., Gendig, C., Kern, S. and Oberkönig, W. (1999).** Respiration inhibition of activated sludge bacteria by selected organic compounds.  
9th Annual meeting of SETAC-Europe, Leipzig, Germany.

**Strotmann, U.J., Domogala, G., Gendig, C. and Pagga, U. (1999).** Development of a growth inhibition test with activated sludge bacteria for assessing bacterial toxicity of chemical compounds.  
9th Annual meeting of SETAC-Europe, Leipzig, Germany.

**Strotmann, U.J. and Pagga, U. (1996).** Development of a growth inhibition test with sewage bacteria for assessing bacterial toxicity of chemical compounds. Wissenschaftstag der Industrie- und Handelskammer, Muenster

**Strotmann, U.J. (1996).** Abfallvergärung - ein neues Verfahren zur biologischen Abfallbehandlung. Vortrag im IFE, Recklinghausen am 07.03.1996.

**Strotmann, U.J. (1994).** Die Prüfung des Abbau- und Eliminationsverhaltens von Abwässern. Vortrag auf dem Workshop "Biologische Abbaubarkeit - Bedeutung für die chemische Industrie, Ludwigshafen

**Strotmann, U.J. and Weisbrodt, W. (1993)**  
Wastewater treatment and integrated environmental protection at the BASF AG in Ludwigshafen, Germany.  
Hauptvortrag auf der Third International Conference on Waste Management in the Chemical and Petrochemical Industries, Salvador (Bahia), Brasilien

**Strotmann, U.J. and Bias, W.R. (1993)**  
Biodegradation of morpholine in static biodegradation tests and in wastewater treatment plants  
Sixth Intern.Symposium Toxicity Assessment and on-line Monitoring, Berlin

**Strotmann, U.J. and Bias, W.R. (1992)**  
The dehydrogenase assay as a monitoring instrument for the estimation of toxicity of

chemicals to activated sludge  
Joint Meeting of SETAC-Europe, Potsdam

**Strotmann, U., Weisbrodt, W. und Zimmer, G. (1991)**

Aspekte und Perspektiven der Behandlung von Abwasser aus chemischen Produktionen  
Kolloquium der TU Berlin (SFB 193)

**Strotmann, U. und Rösenthaller, R. (1987)**

Abbau von 2-Chlorethanol unter aeroben Bedingungen  
41.Tagung der DGHM, Heidelberg

**Strotmann, U. and Rösenthaller, R. (1987).** Toxicology and degradation of short-chain chlorinated hydrocarbons.  
Zbl.Bakt.Mikrobiol.Hyg. 183:474-475

**Strotmann, U. and Rösenthaller, R. (1987).** Toxicology of the mycotoxin citrinin in respect to the development of the bacteriophage M 13.  
Zbl.Bakt.Mikrobiol.Hyg. 183:455

**Strotmann, U. and Rösenthaller, R. (1986).** Investigations about degradation of monochloroacetic acid, dichloroacetic acid, chloroethanol and dichloromethane. Gemeinsame Frühjahrstagung der VAAM und der Sektion I der DGHM, Münster

**4. Books**

Rosenberg, J.L. and Epstein, L.M. (1999)  
Chemie, 8th edition

(eds. **J. Roll and U. Strotmann**) Mc Graw Hill (in German).