

**Workshop dedicated to the memory of
Prof. Alberto ROZZI**
'Research and innovation in wastewater treatment'
Politecnico di Milano – ENEA Bologna
November 25th-26th 2004



November 25th - Politecnico di Milano – Hall S01

8:30– 9:15 **Reception**

9:15 – 9:45 **Opening (C. Nurizzo, W. Müller)**

Session 1: Priorities and perspectives in wastewater treatment (Chairman: W. Müller)

9:45 – 10:15 Water In Short Cycles

(G. Lissens & W. Verstraete, Ghent University)

10:15 – 10:45 EU strategies for water quality: priorities and perspectives

(A. Tilche, European Commission, DG Research)

10:45 – 11:15 *Coffee Break*

Session 2: Membrane Bioreactors (Chairman: A. Tilche)

11:15 – 11:45 Design, experience and perspectives

(P. Cornel and S. Krause, Darmstadt Technical University)

11:45 – 12:15 Membrane Bioreactors in Drinking Water Treatment: review and pilot scale results on an heterothrophic separative MBR *(F. Malpei, G. Buttiglieri, M. Garavaglia, J. Ligthart, H. Nieman; Politecnico di Milano, EC Joint Research Center Ispra)*

12:15 – 12:45 **Alberto Rozzi memorial awards to two Italian graduates for the best thesis on wastewater treatment technologies in the academic year 2002-2003**

12:45 – 14:00 *Buffet*

14:00 – 14:15 **Opening (M. Pascoe, International Water Association)**

Session 3: Sensors for the measurement of bacterial activity (Chairman: J. Lema)

14:15– 14:45 Respirometry: does it work in practice?

(H. Spanjers, LeAF Lettinga Associates Foundation, Wageningen)

14:45 – 15:15 Simultaneous calorimetric and respirometric measurements for textile wastewater characterisation *(E. Daverio and J. Ligthart, EC Joint Research Center Ispra)*

15:15 – 15:45 Set point titration for the measurement of bacterial activity and substrates concentration

(E. Ficara, V. Mezzanotte, A. Rozzi, Politecnico di Milano, Università Statale di Milano)

15:45 – 16:15 *Coffee Break*

Session 4: Anaerobic digestion (Chairman: F. Malpei)

16:15 – 16:45 Challenges and Opportunities for Anaerobic Processes

(J. M. Lema, University of Santiago de Compostela)

16:45 – 17:15 Modelling of Anaerobic Digestion Processes: A Review

(E. Remigi, K.Foxon, University of KwaZulu-Natal)

17:15 – 17:45 **Closing**

18.00

Bus to Bologna

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November 26th – ENEA BOLOGNA

9:00 – 9:15 **Opening (R. Canziani, L. Luccarini)**

Session 1: Automation in wastewater treatment plants (Chairman: L. Luccarini, ENEA)

9:15 – 9:45 The contribution of public authorities to the improvement of wastewater treatment facilities (*G. Bortone, Regione Emilia-Romagna, I*)

9:45 – 10:15 Efficient Operation of Urban Wastewater Treatment Plants (EOLI): an European project dedicated to sequential batch reactors (*D. Dochain, Université Catholique de Louvain*)

10:15 – 10:45 Automation in wastewater treatment plants
(*P. Ratini - SPES*)

10:45 – 11:15 *Coffee Break*

Session 2: On-line process monitoring (Chairman: R. Canziani)

11:15 – 11:45 Monitoring and control of a pilot scale SBR
(*L. Luccarini - ENEA*)

11:45 – 12:15 On-line monitoring by UV spectrophotometry sensors
(*A. Pauss, M. Bekri, T. Ribeiro, O. Schoefs, Université de Technologie de Compiègne*)

12:15 – 12:45 On-line monitoring by set-point titration
(*N. Fiocchi, E. Ficara, R. Canziani, Politecnico di Milano*)

12:45 – 14:00 *Buffet*

14:00 – 16:00 **Technical visit: the Titration Automatic ANalyzer (TITAAN) located at the WWTP of Trebbo di Reno – Bologna**