



Department of Civil Engineering

C.P.D. Short Course on

**Principles, Design and Operational Experiences of
Biological Aerated Filters (BAF)**

Syllabus:

In connection with the Report of the International Review Panel (IRP) on the Strategic Sewage Disposal Scheme (SSDS), biological aerated filters (BAF) have received widespread attention as a space-saving, biological wastewater treatment alternative. In this short course, a comprehensive overview of this technology is presented for the first time in Hong Kong. Topics to be covered include the following theoretical and practical aspects: (1) Introduction and background of BAF technology, (2) Theory of biofilm systems, (3) Types of BAF systems, (4) Design and operation of BAFs; comparison with activated sludge systems, (5) Different applications of BAFs for carbon and nitrogen oxidation, denitrification, and phosphorus removal, (6) Proper selection and application of BAF in overall treatment scheme, (7) Pilot studies; sludge generation, (8) Comparison of BAF and membrane filtration, (9) Actual experiences with BAF in wastewater treatment plants (Selection, planning and design of BAF; Operational results; Cost of BAF), (10) Panel discussion with speakers and representatives of suppliers.

Speakers:

Professor Helmut Kroiss, Dipl.Ing. Dr. techn., Institute for Water Quality and Waste Management, University of Technology, Vienna, Austria

Mr. Klaus Alt, Dipl.-Ing., Vice-President, Hydro-Ingenieure Consulting Engineers, Duesseldorf, Germany

Professor H.H.P. Fang, Department of Civil Engineering, The University of Hong Kong, Hong Kong

Dr. A. Koenig, Department of Civil Engineering, The University of Hong Kong, Hong Kong

Continuing Professional Development Credit:

The short course is considered suitable for $1\frac{1}{2}$ CPD-day credit. A Certificate of Attendance will be issued to those who attend all sessions.

Dates:

March 30 - 31, 2001

Course Venue:

Room 218, Main Building, The University of Hong Kong.

Course Fee:

HK\$1,500.- (including course fee, notes, coffee and snacks) (Non-refundable). This short course is sponsored by the Area of Excellence in Water Environment Engineering of HKU.

Enquiries:

All enquiries about this short course should be made to Miss M. Chan, Department of Civil Engineering, The University of Hong Kong at 2859-2667.