



*The BRACE CENTRE FOR WATER RESOURCES MANAGEMENT*

## **Prof. James Edzwald**

Professor Emeritus of Civil and Environmental Engineering at the University of Massachusetts and Visiting Professor at Clarkson University

### **DEVELOPMENTS, DRINKING WATER, AND DISSOLVED AIR FLOTATION**

The seminar presentation will examine significant developments that have occurred pertaining to dissolved air flotation (DAF) for clarification of drinking waters. The first DAF plants were placed into operation in the USA in the 1980s and in Canada in the 1990s, and during this brief time there have been major scientific and technological advances that have influenced the development of DAF making it an important drinking water treatment process. Theories on particle (or flocs) bubble interactions and separation of bubble-floc aggregates have improved our understanding of the process. At the same time, we have seen DAF processes designed with shorter pre-treatment flocculation detention times and at higher hydraulic loading rates yielding small treatment plant footprints.

Dr. James K. Edzwald was Professor of Civil and Environmental Engineering at the University of Massachusetts (UMass) from 1984-2006. He is currently Professor Emeritus at UMass and Visiting Professor at Clarkson University. He earned his B.S. (Civil Engineering, 1964) and M.S. (Environmental Health Engineering, 1968) from the University of Maryland, and PhD in (Water Resources Engineering, 1972) from the University of North Carolina, Chapel Hill. Dr. Edzwald's research interests include water supply, drinking water treatment, physical chemical processes in water and wastewater treatment, and aquatic chemistry. He was Editor from 2000 to 2008 of the *Journal of Water Supply: Research and Technology (Aqua)* and he is the Technical Editor for the 6<sup>th</sup> edition of *Water Quality and Treatment* for AWWA-McGraw Hill.

**Friday, January 9<sup>th</sup>, 2009**

McGill Downtown Campus, Trottier Engineering Building, Room 2110  
11:30 am - 12:30 pm

**EVERYONE WELCOME**