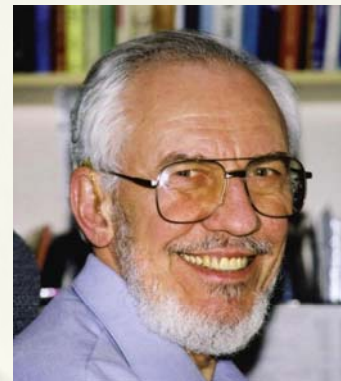


Invited Presentation

Fundamental concepts of Advanced Oxidation Technologies with some examples

Dr. James Bolton

Albert University, Canada



Time: 9:00-11:00 am, Apr. 1, 2011. (Friday)

Place: Meeting Room 308 in process building

Abstract:

Advanced Oxidation Technologies (AOTs) involve the generation (often by photolysis) of hydroxyl radicals, which then attack and oxidize organic contaminants. In this lecture, Dr. Bolton will review the various AOTs that have been studied, introduce the fundamental concepts involved with photolysis based AOTs (including photochemical and kinetic rate concepts) and will present some examples, particularly in the use of AOTs to treat micropollutants in drinking water.

Brief introduction:

Dr. James Bolton has a BA and MA from the University of Saskatchewan and a Ph.D. from the University of Cambridge. He recently retired as Executive Director of the International Ultraviolet Association; he is President of his consulting firm, Bolton Photosciences Inc. and Adjunct Professor in the Department of Civil and Environmental Engineering at the University of Alberta. He is Professor Emeritus of Chemistry from the University of Western Ontario, London, Canada. Dr. Bolton is also the current Editor-in-Chief of IUVA News, the ultraviolet magazine of the International Ultraviolet Association.

Dr. Bolton has over 35 year's experience in photochemistry and ultraviolet technologies and has over 290 publications, including 10 books and 8 patents. His most recent books are: "The Ultraviolet Disinfection Handbook" by J.R. Bolton and C.A. Cotton, American Water Works Association, Denver, CO (www.awwa.org) and "Ultraviolet Applications Handbook", 3rd Ed. by J.R. Bolton, published by ICC Lifelonglearn, Inc. and available at www.boltonuv.com.

This is invited by Prof. Hongbin Cao, Welcome!

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