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United Nations University - International Network on  
Water, Environment and Health

## UNU-INWEH WATER HEALTH SEMINAR



Presents

### **Dr. Chris D. Metcalfe**

**Date:** November 26, 2008 from 12.30 - 13.30 pm

**Location:** General Sciences Building Room 330  
McMaster University, Hamilton, ON

**Free and Open to Public**

### **“The Art and Science of Managing Watersheds in the Developing World”**

In developing countries, communities often discharge domestic sewage into lakes and rivers with inadequate or no treatment. Treatment of sewage is not a high priority in many of these communities unless the citizens can derive economic benefits from the water resources that are created. Using examples related to his international development experiences in Mexico and Ecuador, Dr. Metcalfe will illustrate how community interest in water management can be encouraged through pilot projects that demonstrate the economic and ecological benefits of wastewater treatment. The examples will include the construction of a subsurface flow treatment wetland in a small community in the Rio Texcoco watershed in central Mexico and a surface flow wetland in the Lago San Pablo watershed in the highlands of Ecuador. In addition, Dr. Metcalfe will discuss the challenges associated with establishing true partnerships with the host communities that are participating in international development projects.

#### **About the speaker:**

Dr. Metcalfe is a Professor at Trent University for over 20 years, and has a wide range of experience in determining the environmental fate and effects of contaminants of emerging interest. He has utilized a wide range of analytical instrumentation to evaluate the distribution of contaminants in water, soils, sediments, industrial and domestic effluents, fish, birds and marine mammals. Dr. Metcalfe also has extensive experience in water quality issues in developing countries, including Argentina, Ecuador, Mexico, Cuba and Indonesia. Since July, 2006, Dr. Metcalfe has been the Director of the Institute for Watershed Science at Trent University. This multi-disciplinary research centre is currently involved in research on watershed management.

#### **Find out more at**

Website: [www.inweh.unu.edu](http://www.inweh.unu.edu)

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