

Course Title: Safe Drinking Water - Lessons from Outbreaks

Contact Hours: 7

CEU Value: 0.7

Course Description:

This workshop has been developed to provide water professionals with a comprehensive review of several waterborne disease outbreaks that have occurred in Canada and the United States over the past few decades. The focus is on what we have learned from these disasters and how to avoid making the same mistakes in the future. **Experience has demonstrated that tragic loss of life due to waterborne disease is a real threat to drinking water production** and this seminar is intended to provide information on preventing such outbreaks.

The training material is drawn from a book coauthored by Dr. Steve Hrudehy and Elizabeth Hrudehy entitled "Safe Drinking Water – Lessons from Recent Outbreaks in Affluent Nations". The book began as a small scale analysis of recurring themes in documented outbreaks in affluent countries prepared for the benefit of the Research Advisory Panel to the Walkerton Inquiry.

Concepts that will be addressed include: safe water, what it is and is not; the multiple barrier approach; key water quality concepts; characteristics of pathogenic organisms; preventing disease outbreaks. The workshop includes a comprehensive review of recurring issues and how we can learn from past experience.

Areas of study include:

- Causative Agents of Waterborne Disease
- Capabilities of Water Safety Barriers
- Case Study 1 Walkerton May 2000
- Case Study 2 North Battleford March 2001
- Case Study 3 Milwaukee March / April 1993
- Case Study 4 Kitchener-Waterloo Feb. 1993
- Waterborne Disease Outbreaks - Recurring Themes
- Preventing Disease Outbreaks

Target Audience:

This course will be of interest to a wide audience including all drinking water professionals; managers, consultants, regulatory personnel, engineers, operators and municipal officials. The workshop material is also suitable for the general public.