

*Proceedings of the Tenth Technological Seminar on Chemical Spills (St. Johns, New Brunswick) 1993*, published by Technology Development Branch, Environment Canada, Ottawa, No ISBN, 1993, 318 pp., no price given

Nineteen papers presented at this conference are found in the proceedings almost equally divided among the five major headings below:

1. Countermeasures: Containment and removal
2. Countermeasures: Treatment and in-situ technology
3. Behavior, fate and effects
4. Safety and analytical
5. The spill problem

In most conference proceedings there is a wide variety of papers of variable quality. In this case, the variety is there, but the variable quality is not. All the papers I read were excellent.

I most enjoyed the account of spills and spill response involving the following:

1. Arsenic trioxide lost at sea in drums from a container ship
2. A pesticide spill into a remote river that resulted from a truck accident
3. Ammonia; an overview of its environmental hazards

And I read papers in the following cleanup areas:

1. BTEX removal from ground water — evaluation of technologies including UV and  $\text{TiO}_2$  catalysis
2. Organic removal from soil — evaluation of several methods including solvent extraction and advanced oxidation
3. Heavy metal removal from soil by washing
4. Arsenic removal from water by adsorption and microfiltration
5. Hydrocarbon removal from soil by low-temperature thermal desorption
6. *N*-nitroso dimethylamine oxidation of water including a  $\text{TiO}_2$ /UV process evaluation

Clearly there is a wide range of papers on some very state-of-the-art technology. Not reviewed here were several research papers dealing with PCBs and BLEVEs which were also interesting.

A companion volume is the proceedings entitled *The Practical Approach to Hazardous Substance Accidents*.

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*The Practical Approach to Hazardous Substance Accidents* (Proceedings of a Conference ER93CS, St. Johns, New Brunswick, Canada, September 1993, organized by the Major Industrial Accidents Council of Canada), 460 pp., no price given, no ISBN

This book is a companion volume to the proceedings of the Tenth Technical Seminar on Chemical Spills.