

have not had been of sufficient duration and concentration to have resulted in observable, long-term health effects correlated with dump site exposures. However, the experts concluded that many uncontrolled chemical disposal sites contain substantial quantities of toxic substances, some of which have migrated from the sites and resulted in human exposure, and which have the potential to cause serious, irreversible, or even fatal illness if exposure to the substances is prolonged.

GARY F. BENNETT

Hazardous Waste Management, Vol. 1. The Law of Toxic Torts and Toxic Substances, by G.S. Dominguez and K.G. Bartlett (Ed.), CRC Press, Boca Raton, FL, 1986, ISBN 0-8493-6356-X, 208 pages, \$88.00.

George Dominguez, Director of Information Services for the Synthetic Chemical Manufacturers Association and Kenneth Bartlett, an attorney, have combined to edit this most excellent book that appears to be the first of a CRC Press series on Hazardous Waste Management. After reading the book, I look forward eagerly to the others. Six other contributors assisted in the preparation of the nine chapters:

1. Hazardous Waste Management
2. The Constitutional Framework of Hazardous Waste Legislation
3. Treatment Options in Hazardous Waste Management and Overview
4. From Cradle to Grave: The Legislative History of RCRA
5. Summary and Analysis of RCRA as Amended
6. The Hazardous Waste Management Program Under RCRA
7. The Legal Development of Remedies of Hazardous Waste Victims — The Common Law Remedies
8. The Legal Development of Remedies of Hazardous Waste Victims — Statutory Remedies
9. Economic Issues and Aspects of Hazardous Waste Management.

In his introduction, Dominguez says: "Literature on hazardous waste has grown enormously in recent years" (I would add both in volume and complexity). The Resource Conservation and Recovery Act (RCRA) regulations have filled thousands of pages in the Federal Register that clearly are voluminous, complex and I might add boring, but very important to those in hazardous waste management.

The author notes his essential purpose in writing/editing the book "was to provide working managers with a comprehensive introduction to the practical operation aspect of hazardous waste management and with an extremely important foundation in relevant laws, rules and regulations".

After reading the book, I believe the editors accomplished what they set out

to do, although I wished some of the contributors had provided more specific information in their chapters. Chapters 3 and 9 on treatment options and economic issues, respectively, are a short ten pages each and much too general. Perhaps the specifics I would have wanted will come in later volumes of the series.

I also missed some of the details of the RCRA regulations, although I find the details difficult and boring, as I said. RCRA, the law that forms the basis for the foregoing regulations, was well covered as the book said "from cradle to grave"; the regulations were not. I hope details will follow.

GARY F. BENNETT

Handbook of Laboratory Waste Disposal, by M.J. Pitt and E. Pitt, Ellis Horwood Limited, Chichester, England, 1986, ISBN 0-85312-634-09, 360 pages, \$94.95.

On February 3, 1986, the cover of *Chemical and Engineering News* graphically illustrated the problems of hazardous waste in academic laboratories. Inside the magazine was a feature story on the topic. The problem was well stated and in the main is recognized by most researchers, but it was not until his book appeared that the problem was satisfactorily addressed.

The flyleaf of the book states, and I agree:

"This wealth of practical information on waste disposal in a wide range of laboratory disciplines is intended both for the practicing scientist as well as engineers and industrial managers. It seeks solutions to real life problems with safety in major conditions."

And that it does. This is one of the most down-to-earth, useful books I have seen. It does indeed address the practical aspects of chemical handling, mishandling (spills) and disposal. On that topic, I noted with pleasure (and not a little surprise) that the authors include both U.S.A. "hazardous" and U.K. "special waste" laws.

The range of waste materials discussed ranges from paper towels to unidentified chemicals. The need to comply with regulations and safety requirements is a constantly highlighted feature. Especially helpful are bold-faced cautionary notices intended to draw the reader's attention to possible hazards, many of which are taken from known incidents to waste disposal.

Among others, chapters are devoted to: laboratory drainage; fume extraction; incinerations; chemical (disposal dilution, extraction, evaporation reaction, conversion or neutralization; gas cylinders; biological materials; radioactive substances; materials recovery and emergency procedures.

A short chapter is devoted to educational institutional laboratories. Topics covered include teaching waste disposal, classwork and accidents in project