

risks, uncertainties in risk assessment, regulatory aspects of risk assessment, and the social pressures on the fields of toxicology and risk assessment. The book is well-written and easy to read. The system of having all the references and source material in a separate final chapter detracts somewhat from the ease of using this otherwise excellent book.

ELIZABETH K. WEISBURGER

*Air Monitoring for Toxic Exposures — An Integrated Approach*, by Shirley A. Ness, Van Nostrand Reinhold, New York, 1991, ISBN 0-442-20639-9, 534 pages, \$79.95 (available on 15-day exam from Van Nostrand Reinhold, Mail Order Dept., P.O. Box 668, Florence, KY 41022-0668, USA)

This timely volume (see *Wall Street Journal*, 29 March 1993, page 1, Clearing the Air) is a practical approach to performing sampling surveys, explaining in considerable detail both the equipment used and the technique required. The author is senior industrial hygienist of the Amoco Oil Whiting, Indiana refinery and has included discussions of bioaerosol sampling, dermal exposure methods, toxic effects of chemicals and their impact on sampling strategies, new trends in particle size-selective sampling, the use of real-time and direct-reading instruments and data loggers, the EPA and OSHA techniques, and includes sampling strategies for surveys including indoor air, asbestos, confined space, and industrial exposures. Even radon is included in a non-emotional manner. Human emissions, including breath and urine are discussed with the techniques necessary to sample and analyze them properly. A table lists 24 compounds, with their infrared wavelengths which are recommended for breath screening. Soil sampling is discussed, with procedures for surface soil and also sub-surface soil sampling. Tank sampling, as well as sampling drinking water in the plant, are discussed in detail.

This is an excellent presentation, with numerous photos, of the real-world problems encountered in sampling and analysis of injurious toxic exposures. It is highly recommended as an update to present techniques widely used in industry and other industrial hygiene areas.

HOWARD H. FAWCETT

*Laboratory Experiments in Environmental Chemistry*, by M.G. Ondros, Wuerz Publishing, Ltd., 895 McMillan Ave., Winnipeg, NB R3M 0T2 Canada, 1993, ISBN 0-920063-52-7, 128 pp., paperback, \$19.00 (plus postage).

This laboratory manual is intended for students with a basic knowledge of chemistry, with 20 experiments requiring 1.5 to 3 hours each. The author is