

The book was not on my office shelf for more than one day when I had to find out about benzidine, which was thought to be contaminating a local site. The book provided all the data I needed. It is a great addition to my chemical library and I strongly recommend its purchase to every chemical spill responder, chemist and chemical engineer who has to deal with known and unknown chemicals and the hazards they pose.

GARY F. BENNETT

Industrial Hygiene Management, by J.T. Garrett, L.J. Cralley and L.V. Cralley (Eds.), Wiley/Interscience, New York, NY, 1990, ISBN 0-471-85128-0, 386 pp., \$69.96.

The timely appearance of this title, as the OSHA Chemical Laboratory Standard has emerged, should attract the attention of administrators as well as industrial hygiene and other management personnel to this carefully researched and referenced volume. Drawing on the experience of 26 authors as well as the extensive knowledge of three recognized authorities as editors, the volume digests and summarizes the management as well as professional aspects in this relatively new effort in chemical health and safety, largely in the last 40 years. The ultimate goal of increased production and lower operating costs through fewer health concerns of exposed workers is now recognized as another symbol of cost-effective management.

A scan of the table of contents reflects the broad view of the editors. Starting with a discussion of ethics (Does the Golden Rule still apply?), the overall management of the industrial hygiene activity is explored. The serious responsibility for an efficient scientific, yet still economical activity, is explored. The necessity for industrial hygiene staff to communicate in a positive manner the hazards of the chemical materials, including the Right-To-Know, even to workers who may have a less-than-interest in the effort, is a significant challenge. As exposure measurement data progresses and is analyzed, new insight is often gained which can be utilized to prevent more serious problems in the workplace. The tools of the trade, including the monitoring and laboratory back-up should be kept under close management to ensure the most effective and precise results. Realistic estimates and budgets for the program and its professional personnel must be examined if the effort is to be truly productive.

This volume is a substantial step forward in increasing the awareness of the work of the American Industrial Hygiene Association, the Division of Chemical Health and Safety of the American Chemical Society, and the Industrial Hygiene Foundation. The distillation of years of experience in this relatively

neglected area off human health makes this volume a significant positive factor for both academia and industry.

HOWARD H. FAWCETT

The Elements beyond Uranium, by G.T. Seaborg and W.D. Loveland, Wiley/Interscience, New York, NY, 1991, ISBN 0-471-89062-6, 359 pp., \$49.95.

This is the twelfth volume on transuranium elements since 1949 and reflects current status and background on the 50th anniversary of the discovery of elements 93 through 110. Dr Glenn Seaborg, one of the co-discoverers of plutonium and nine additional elements, is a Nobel prize winner. Professor Walter Loveland, co-author, is a professor of chemistry at Oregon State University.

Transuranic elements 93 to 109 (110 is in doubt) resulted from extensive investigations which included a re-orienting of the whole periodic chart. These efforts are reviewed with sufficient depth to present the basic approach to chemists, engineers and physicists. Born in the joint quest for both peaceful atomic energy and the Manhattan Project, the new knowledge has increased greatly our view of the 1872 table of Mendeleev and its application in modern chemistry.

Although highly authoritative and with 494 references, the volume contains data and information useful even to the layman; practical discussions on nuclear power from nuclear fission (which produces worldwide about 140 tons of plutonium annually); military applications and industrial applications. Now that the nuclear "threat" has been largely neutralized, perhaps renewed research will result in a better understanding of transuranic elements (more can be postulated), and it is hoped this volume will be a useful guide.

HOWARD H. FAWCETT

Laser Safety Comes to Light, 20 min, $\frac{1}{2}$ " VCR tape, accompanied by training manual, *Laser Safety Guide*, *Guide for Selection of Laser Eye Protection*, and ANSI Z136.1 - 1991 American National Standard for the Safe Use of Lasers (95 pp.) available from Coherent Auburn Group, 2301 Lindbergh St., Auburn, CA 95603.

The growing application of lasers in a variety of occupations and applications make this collection of tapes, standard and training manual a most useful addition to the safety and hygiene literature. The information is presented in a clear manner, and the real danger of certain laser exposures to the eyes and skin are well projected. The use of chemicals, such as chlorine, fluorine and