

the INDUSTRIAL ENVIRONMENT — its EVALUATION & CONTROL

**U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
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Center for Disease Control
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FOREWORD

In 1958 the Public Health Service's Occupational Health Program introduced the Syllabus, a compilation of training aids, in conjunction with courses presented by the Service to industrial hygiene personnel.

Training people in the profession of industrial hygiene was not a new concept in 1958. The Occupational Health Activity of the Public Health Service was established in 1914 to protect and preserve the health of the American worker. From the very beginning, one of the tenets of our organization was the promotion and improvement of industrial hygiene and industrial medicine.

In 1970 Congress passed the Occupational Safety and Health Act. This Act specifically instructed the National Institute for Occupational Safety and Health (NIOSH) to ". . . 1) develop and establish recommended occupational safety and health standards, and 2) perform all functions of the Secretary of Health, Education and Welfare under Sections 20 (Research and Related Activities) and 21 (Training and Employee Education) of this Act."

This third edition, which has become an industrial hygiene textbook rather than a syllabus, is the most comprehensive to date. The subject matter is extremely broad, covering topics from mathematics to medicine. The first few chapters, in addition to providing historical information, cover such areas as mathematics, chemistry, biochemistry, physiology and toxicology. Other chapters deal

with specific areas of interest to those concerned with evaluating the potentially harmful effects of physical and chemical air contaminants. New chapters have been added on safety, solid waste, and control of water pollution. It is not possible to provide sufficient information in any of the chapters to make the reader an authority; rather, the book is to be used in conjunction with other training aids. References are included at the end of each chapter for further study.

Authors of chapters in this edition were selected for their expertise in the particular subject covered. In reviewing the affiliations of the authors, it is interesting to note that there are 15 representatives from universities, 19 from industry, and 12 from the consulting field, as well as several representatives from State agencies and technical societies.

The appreciation of the National Institute for Occupational Safety and Health is extended to the contractor, George D. Clayton & Associates, Southfield, Michigan, and the contributing authors. They have shared their expertise at a time when overwhelming demands are being made upon them.

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