



Industrial Hygiene Digest

INDUSTRIAL HEALTH NEWS

LITERATURE ABSTRACTS

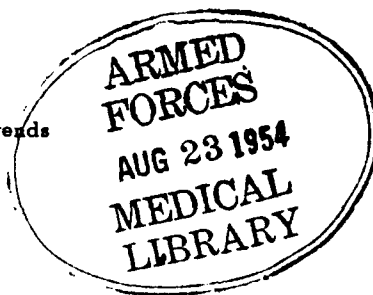
MEDICAL

ENGINEERING

CHEMICAL

TOXICOLOGICAL

LEGAL . . . decisions and trends



AUGUST, 1954

(Vol. 18, No. 8)

INDUSTRIAL HYGIENE FOUNDATION

MELLON INSTITUTE

4400 FIFTH AVENUE -- PITTSBURGH 13, PA.

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FOUNDATION FACTS

Foundation Facts is a monthly news-letter issued to industrial concerns holding membership in Industrial Hygiene Foundation. The Foundation is a nonprofit association of industries for the advancement of healthful working conditions.

Volume 16

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WALMER ON CIVIL DEFENSE COMMITTEE

Dr. C. Richard Walmer, Managing Director of Industrial Hygiene Foundation, has been made a member of the advisory committee to study the civil defense problem in Pittsburgh and Allegheny County and to aid in civil defense activities.

LANZA MADE PROFESSOR EMERITUS

Dr. Anthony J. Lanza, a Trustee of the Foundation and a prominent in the field of industrial medicine, has been made professor emeritus of New York University--Bellevue Medical Center's Post-Graduate Medical School, from which he is retiring at the end of the academic year. A faculty member since 1947, he has served as professor and chairman of the department of industrial medicine and director of the Medical Center's Institute of Industrial Medicine. He will continue as consultant for the Institute. Dr. Lanza has been active in the field of industrial medicine and hygiene since 1906 and has contributed much to its advancement while serving in important government and industrial posts.

NEW PERSONNEL

Miss Ethel Tolker has been added to the staff of the Foundation's toxicology laboratory as research assistant. One of her main duties will be the preparation of tissue specimens for microscopic examination. Miss Tolker is a graduate of the University of Maryland and was formerly associated with St. Joseph's Hospital in Pittsburgh.

CHEMICAL-TOXICOLOGICAL COMMITTEE APPOINTMENTS

Two new members appointed to the Chemical-Toxicological Committee are: N. V. Hendricks, Head of the Industrial Hygiene Section, Esso Laboratories, Standard Oil Development Company; and H. E. Stokinger, Chief Toxicologist, Division of Special Health Services, U. S. Public Health Service, Cincinnati.

NEW REPRINT AVAILABLE

Reprints are available upon request of a paper on "A New Apparatus for the Partitioning of Expired Air of Small Animals", by Paul E. Palm, Kenneth M. Cook, Jack H. U. Brown, and Theodore Hatch, published in the Review of Scientific Instruments, Vol. 25, No. 6, 576-579, June, 1954.

I-H-F

upon the PH. From albumin solutions having a concentration comparable with plasma only about one-tenth of the available adsorption sites on a quartz surface are filled at PH 7.4. The adsorption of proteins upon the quartz surface is not considered to be an important aspect of the silicosis problem.

-- Authors' conclusions

- 905 The Presence of Asbestos Fibers in Urine of Workers Exposed to Asbestos Hazard. V. Wyss. Rass. med. ind. 22, 55-56 (1953). Italian.

In urinary sediment of two asbestos workers asbestos fibers were seen; the same finding was detected in urine of two female patients suffering from asbestosis, who had left their work seven years before. -- Biol. Absts.

PHYSICAL ASPECTS OF THE ENVIRONMENT

- 906 Some Practical Aspects of Industrial Noise Measurement. L. J. Proulx. Arch. Ind. Hyg. & Occ. Med. 9, 496-502 (June 1954).

Some of the instrumentation problems faced by an engineer who must evaluate industrial noise environments are discussed. An array of equipment which includes a sound level meter, octave band analyzer, tape recorder, dynamic microphone, audio oscillator, vacuum tube voltmeter, high-fidelity crystal headphones, cathode ray oscilloscope, and a good quality loudspeaker is described. The use of the tape recorder and oscilloscope for measuring impact noises is given particular attention. Various calibration checks are described.

- 907 The Locus of Short Duration Auditory Fatigue or "Adaptation." J. D. Harris and Anita L. Rawnsley. J. Exptl. Psychol. 46, 457-461 (1953).

Auditory adaptation, defined as a reversible shift in threshold following very mild acoustic stimulation, was distinguished from true auditory fatigue by four criteria: (1) the non-cumulative effect of stimulus duration; (2) the temporal course of return to normal threshold following stimulation; (3) the relative frequency region of maximum threshold shift following pure tone stimulation; and (4) the shape of the curve of loudness (recruitment.) This experiment sought to throw light upon where, in the auditory system, adaptation occurs. By the technique of simultaneous binaural loudness balancing between one normal ear undergoing a threshold shift of a preceding adapting stimulus, it was possible to demonstrate an accelerated growth of recruitment in the adapted ear. The intimate