

## INDUSTRIAL HYGIENE

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No. 7

### Investigation of Health Hazards in Government Munitions Plants

Studies of industrial health hazards in ordnance establishments, in certain industrial plants of the Air Corps, and at Quartermaster Corps depots are being continued by the Division of Industrial Hygiene of the National Institute of Health, in cooperation with the Office of the Surgeon General of the Army. At present, one mobile unit is investigating health conditions at the Ogden Ordnance Depot, Ogden, Utah; Benicia Ordnance Depot, Benicia, California; McClelland Field, Sacramento, California; and Wingate Ordnance Depot, Fort Wingate, New Mexico. A second mobile unit is working at Frankford Arsenal at Philadelphia, and a third unit has just completed studies at the Holbird Quartermaster Corps Depot at Baltimore, Maryland. A fourth unit will start operation in New England arsenals on June 30.

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### Funds and Personnel

Approximately \$250,000 is to be made available to the Division of Industrial Hygiene of the National Institute of Health for the 1942 fiscal year, in order to continue the industrial hygiene activities in defense industries which were initiated on March 1 of this year. This amount, plus the regular appropriation of the Division, will bring the entire budget for industrial hygiene in the Public Health Service close to \$500,000. With these funds it has been possible to employ additional personnel so that at present there are 106 persons engaged in this work, of whom 17 are physicians, 16 are engineers, 32 are other professional personnel such as chemists, toxicologists, and physicists, and 41 are sub-professional and clerical workers. There are now 32 professional persons engaged directly in field activities in defense industries. This group consists of 12 physicians, 15 engineers, 4 chemists, and 1 nurse. It is planned to increase this mobile field group in order to satisfy the demands for personnel in the States.

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### Office of Dermatoses Investigations Transferred

On June 13, 1941, the Office of Dermatoses Investigations of the National Institute of Health was transferred from the Division of Infectious Diseases to the Division of Industrial Hygiene. This office will function as a third section of the Division, to be known as the Dermatoses Investigations Section, with Medical Director Louis Schwartz in charge.

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### Survey of Medical Services in Industry

Arrangements were recently completed between the Public Health Service and the Metropolitan Life Insurance Company, whereby Dr. W. J. McConnell of the latter organization will be appointed a consultant to the Division of Industrial Hygiene of the National Institute of Health. Dr. McConnell, in cooperation with the Division, will direct a Nation-wide survey of present-day medical service facilities in industry. The purpose of this cooperative investigation is to obtain information upon which standards for health maintenance programs in various types and sizes of industry may be based.

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### Subcommittee on Industrial Health and Medicine Meets

On June 20-21, the Subcommittee on Industrial Health and Medicine, of the Health and Medical Committee, met in Detroit, Michigan with liaison officers from the U. S. Public Health Service, the U. S. Army, and the National Research Council. A progress report on the activities of the Division of Industrial Hygiene of the National Institute of Health in the national defense program was made. A number of defense industries in the area were visited for the purpose of observing model medical and industrial hygiene services in these plants.

The Subcommittee plans to meet again in September in Connecticut, at which time they will visit key defense industries in order to determine to what extent medical and industrial hygiene services are being provided for employees.

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### Industrial Nursing Survey

As a part of the program to promote public health nursing in industry, which was recently undertaken by the Division of Industrial Hygiene, a survey of present industrial nursing practices is now in progress. The survey is being conducted under the auspices of the Committee to Study the Duties of Nurses in Industry, of the Nursing Section of the American Public Health Association. A report on the

results of this study and recommendations will be made before the Nursing Section at the Association's annual meeting in October.

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Missouri and Oklahoma are the most recent States to employ industrial nursing consultants. There are now seven State health departments with public health nurses whose special activity is industrial hygiene, and Ohio and several other States are contemplating such activities.

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REPORTS - MONTHLY - ANNUAL - REPORTS - MONTHLY - ANNUAL - REPORTS

Monthly Reports Only half of the State industrial hygiene bureaus are submitting monthly reports, and many of these are submitted as much as 2 months later than the month for which the report is being made. Prompt and comprehensive reports should be made on the revised form D.

Less than two-thirds of the State industrial hygiene bureaus submitted annual reports for the 1940 fiscal year. The increase in industrial hygiene activities resulting from the national defense program makes it even more important for all units to submit reports for the 1941 fiscal year. Annual Reports

REPORTS - MONTHLY - ANNUAL - REPORTS - MONTHLY - ANNUAL - REPORTS

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New Jersey to Have Industrial Hygiene Bureau

The highly-industrialized State of New Jersey is soon to have an industrial hygiene bureau. The Director of the New Jersey State Department of Health has requested the Surgeon General of the Public Health Service to detail personnel to his department to function as the State industrial hygiene unit. The Division of Industrial Hygiene of the National Institute of Health will assign a doctor, an engineer, and a chemist to this work early in July.

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### Dermatoses in California Aircraft Factories

During May, studies of occupational dermatoses in California aircraft manufacturing plants were made by Dr. Louis Schwartz, of the Industrial Hygiene Division, National Institute of Health, in cooperation with Dr. J. P. Russell of the California State Industrial Hygiene Service. This investigation covered 9 plants, employing a total of 87,540 workers, or over 90 percent of all employees in this industry. The most frequent causes of skin diseases in these plants were found to be cutting and lubricating oils in machine shops; organic solvents in spray-painting, doping, and degreasing operations; paint and resin coatings on duraluminum; acids and caustics in cadmium-plating and chrome-anodizing processes; zinc chromate paint; fluoride fumes from welding operations; mahogany dust in woodworking shops; and organic acids and solvents in plaster shops. Of 36 employees with skin lesions who were examined, 23 were found to have dermatoses of occupational origin.

Plant physicians and safety directors in these establishments were advised as to the necessity for personal hygienic measures, the use of protective clothing and ointments, and the enclosure and ventilation of processes from which irritating gases, vapors and fumes emanate. Excellent cooperation is being obtained from employers and employees in the adoption of these precautionary measures, which should result in a marked decrease in the incidence of dermatoses in aircraft factories.

A paper covering the results of this investigation, will soon appear in the Public Health Reports.

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### Kentucky Goes to Work

In March it was reported that the Kentucky State Department of Health and the Louisville City Department of Health were planning to employ industrial hygiene engineers. The State department now has an engineer and the city department has an engineer and a doctor who are swinging into action on a program of industrial hygiene services to defense industries. At present the two departments are concentrating on surveys and studies of the more important industries within their respective jurisdictions.

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### What's In a Name?

The name of the Connecticut industrial hygiene unit has been changed from "Bureau of Occupational Diseases" to "Bureau of Industrial Hygiene." This would indicate that the State of Connecticut has begun to appreciate, through the work of the industrial hygiene unit, the broad aspects of industrial health, i. e., that industrial health constitutes adult health in all its aspects, rather than freedom from industrial accidents and diseases alone.

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### Iowa Institutes on Industrial Health

A series of special institutes on industrial health, sponsored by the Speaker's Bureau and the Committee on Industrial Health of the Iowa State Medical Society, and the Iowa State Department of Health, were held in five Iowa cities during the week of June 23. Seven national medical leaders in the field of industrial health and twenty-two Iowa physicians and industrialists participated in the week's program which began in Burlington June 23 and ended in Des Moines, June 27. The institutes were attended by Iowa practicing physicians, industrial physicians, and industrial managers. Dr. Walter L. Bierring, State Health Commissioner, presided as chairman of the institutes, and Mr. P. J. Houser and Mr. A. H. Wieters, Division of Public Health Engineering and Industrial Hygiene, assisted on the program.

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Mr. E. T. Roetman has resigned from his position as engineer in the West Virginia Bureau of Industrial Hygiene to accept a position with the American Viscose Company. Mr. Roetman is to establish and administer an industrial hygiene engineering program for this company. His headquarters will be at Marcus Hook, Pennsylvania, after July 1.

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### State Industrial Publications Wanted for Abstracting

State and local industrial hygiene bureaus are requested to send copies of all bulletins, pamphlets, or reports which they publish to Mr. H. G. Dyktor, Chief Engineer, Bureau of Industrial Hygiene, Michigan Department of Health, Lansing, Michigan.

Mr. Dyktor has agreed to abstract all such publications for the industrial hygiene section of Public Health Engineering Abstracts, a processed publication issued monthly by the Sanitation Section, Domestic Quarantine Division, U. S. Public Health Service. Obviously

it will be necessary for Mr. Dyktor to receive the State and local publications if he is to be able to provide a prompt and comprehensive abstract service. The cooperation of all units is urged, particularly since they, as well as public health engineers in general, stand to benefit from such a service.

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### New Publications

The Control of the Lead Hazard in the Storage Battery Industry. W. C. Dreesen, T. I. Edwards, W. H. Reinhart, et al. U. S. Pub. Health Bull. No. 362. Washington: Gov. Print. Off. (1941).

At the request of the National Battery Manufacturers' Association, the Public Health Service conducted a medical and engineering study of the storage-battery industry in 1937-38 to ascertain the effect of working conditions on health. This bulletin reports the results of this study and includes (1) a description of the health of 766 storage-battery workers in 6 plants, about 95 percent of whom are under a physician's supervision; (2) a correlation of the medical findings with quantitative estimations of atmospheric lead concentration which will show the extent to which one may expect the health of workers to be protected by additional progress in suppressing lead fumes and lead dust; (3) an appraisal of the effectiveness (measured in chemical and in physiological terms) of the control measures observed to be in use; (4) recommendations to guide engineers and physicians in improving their services; and (5) the results of tests of several diagnostic aids.

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Occupational Disease Control: Schedule of Occupational Diseases; Health Department Responsibilities; Rules and Regulations; Services Available. Industrial Health Series--No. 1. Issued by the Bureau of Occupational Diseases and the Sanitary Section, Baltimore City Health Department, Baltimore, Maryland, May 1, 1941. 8 pp.

This leaflet gives the schedule of occupational diseases established by the Maryland Occupational Disease Law of 1939. It lists the duties and responsibilities of the State Department of Health and of the Commissioner of Health of Baltimore for carrying out the provisions of the law and the rules and regulations for the control and prevention of occupational diseases which were adopted. These rules and regulations were adopted concurrently by the Commissioner of Health of Baltimore and by the State Department of Health and became effective on January 1, 1941. The services which the Baltimore City Health

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Department desires to make available on an expanding basis for the benefit of all branches of industry within the city are also outlined.

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Periodic Health Examination. The Kalends of the Waverly Press 20, No. 5, 3-5 (1941).

The program for pre-employment and annual physical examinations of all employees of the Waverly Press is described. Mention is made of the part played by the Baltimore City Health Department in the inauguration of the program.

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DIRECTORY OF STATE AND LOCAL INDUSTRIAL HYGIENE PERSONNEL

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| State<br>or other<br>jurisdiction | Name and Title |
|-----------------------------------|----------------|
|-----------------------------------|----------------|

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**ALABAMA**

|   |                                       |
|---|---------------------------------------|
| Industrial Hygiene Division<br>Alabama Department of Public Health<br>Montgomery, Alabama | Dr. A. J. Perolio<br>Acting Director  |
|   | Mr. J. R. Spence<br>Chemical Engineer |

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**CALIFORNIA**

|   |  |
|---|--|
| Industrial Hygiene Service<br>California Department of Public Health<br>2002 Acton Street<br>Berkeley, California | Dr. J. P. Russell<br>Chief                               |
|   | Dr. E. E. Dart<br>Medical Officer                        |
|   | Mr. F. R. Ingram<br>Supervising Engineer                 |
|   | Mr. S. F. Dommès, Jr.<br>Assistant Engineer              |
|   | Mr. W. J. Roberts<br>Junior Chemical<br>Testing Engineer |

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**LOS ANGELES**

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|---|--------------------------------|
| Division of Industrial Hygiene<br>Los Angeles City Department of Health<br>116 Temple Street<br>Los Angeles, California | Dr. A. V. Nasatir<br>Director  |
|   | Mr. Yale Rosenfeld<br>Engineer |

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**COLORADO**

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|--|---|
| Division of Sanitary Engineering<br>Colorado State Board of Health<br>Denver, Colorado | Mr. B. V. Howe<br>Chief Engineer        |
|  | Mr. R. J. Owens<br>Industrial Hygienist |

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Mr. Joseph Massaro  
Assistant Ind. Hygienist

Mr. E. L. Anderson  
Assistant Ind. Hygienist

Mr. B. F. Postman  
Ind. Hygiene Engineer

Mr. W. P. Battista  
Ind. Hygiene Engineer

Mr. L. W. Woodhouse  
Ind. Hygiene Engineer

Miss Rowena Belden  
Industrial Nurse

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## MARYLAND

### BALTIMORE

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Mr. G. W. Schucker  
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Mr. C. E. Couchman  
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Mr. Jack Neal  
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Industrial Hygiene Engineer

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