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All papers submitted for publication should be referred to The Editor, *British Journal of Industrial Medicine*, Griffith House, 280 Marylebone Road, London, N.W.1.

Papers are accepted on the understanding that they are contributed solely to this Journal, and that they are subject to editorial revision. Papers must be typewritten on one side of the paper only, with double spacing, and with a margin of at least 1½ in. Where half-tone reproduction of x-ray illustrations is required, authors should send in the original film and not prints. Photographs and photomicrographs should be printed on glossy paper, and should be unmarked. Charts and graphs accompanying papers should be carefully drawn in black ink on tracing linen or Bristol board or stout, smooth, white paper. Any lettering on these drawings to be done in the editorial office should be lightly inserted in pencil.

References should be arranged according to the Harvard system. When a book is referred to, the place and year of publication, edition, and page should be given. In the text the year of publication must follow the author's name, more than one paper in any one year being indicated by a small letter (a, b, c) after the date. No numbering of references is necessary.

Contributors will receive one proof in page, but it is assumed that all but verbal corrections have been made in the original manuscript; an allowance at the rate of 10s. per sheet of 16 pages is made for alterations in the proof (printer's errors excepted), and contributors will be responsible for any excess.

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in both respects, the theory receives support from the present work also. An objection has been made that the fibrogenic activity of different types of silica does not correlate well with their solubilities as determined in Ringer's solution. However, the more relevant information is not yet available as to the manner in which these dusts dissolve inside phagocytic cells.

The slight silica-antagonizing action of polymyxin B observed was not investigated in great detail. This substance consists of a basic polypeptide linked with a fatty acid. It is believed to release histamine *in vivo* and its toxicity has limited its dosage as an antibiotic in man.

#### Summary

Phagocytic cells were protected *in vitro* against the toxic effect of silica dust by compound 48/80, a histamine-releasing agent formed from p-methoxyphenylethyl-methylamine. The health of the cells was studied by direct microscopy and by measure-

ments of their glucose consumption and dehydrogenase activity. The mode of action of compound 48/80 is not known but may depend on a reduction in silica solubility. A slight protective action was also exhibited by certain alkylmono-amines and polymyxin B.

I am indebted to the Wellcome Research Laboratories for a gift of compound 48/80, to I.C.I. (Pharmaceuticals) Ltd. for providing two alkyldiamines, and to Dr. R. S. Tonks for pharmacological advice. Dr. G. Nagelschmidt and Dr. K. H. Wheatley, of the Safety in Mines Research Establishment, Sheffield, kindly provided the dusts and estimated silica solubility in the presence of compound 48/80.

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## THE JANUARY (1957) ISSUE

The January (1957) issue contains the following papers:—

**The Danger of Dermatoses Due to Cold-setting Ethoxyline Resins (Expoxide Resins).** By E. Grandjean.

**Decompression Sickness During the Sinking of a Caisson.** By H. E. Lewis and W. D. M. Paton.

**The Effects of the Temperatures of the Floor Surface and of the Air on Thermal Sensations and the Skin Temperature of the Feet.** By F. A. Chrenko.

**Foot Ringworm in Coal-miners.** By J. C. Gentles and J. G. Holmes.

**An Experimental Study of the Pathogenesis of Silicotic Granuloma in the Anterior Eye Chamber in Rabbits and Changes in its Development Induced by the Action of A.C.T.H., Insulin, Combinations of Both, and Salicylates.** By Jiří Vyskočil.

**The Prevalence of Tuberculosis at Necropsy in Progressive Massive Fibrosis of Coalworkers.** By D. Rivers, W. R. L. James, D. G. Davies, and S. Thompson.

**The Influence of the Shape of Dust Particles on the Rate of Phagocytosis *In Vitro*.** By A. Lengerová, V. J. Lenger, M. Esslová, R. Tuscany, and M. Volfová.

**The Toxicity of Fumes from a Diesel Engine under Four Different Running Conditions.** By R. E. Pattle, H. Stretch, F. Burgess, K. Sinclair, and J. A. G. Edginton.

**Delayed Death Caused by Gassing in a Silo Containing Green Forage.** By F. M. Troisi.

**Obituary:** By Hubert Wyers, M.D.

#### Miscellanea:

**Association of Industrial Medical Officers: 21st Anniversary Meeting.**

**Industrial Medicine and Hygiene: A Review** by L. G. Norman.

**Percivall Pott (1714-1788) and Chimney Sweepers' Cancer of the Scrotum.** By John R. Brown and John L. Thornton.  
**Medical Planning at Aldenham Works.**

**British Occupational Hygiene Society and Ergonomics Research Society.** By D. Turner.

A number of copies are still available and may be obtained from the Publishing Manager, British Medical Association, Tavistock Square, W.C.1, price 12s. 6d.

We are very grateful to the workers and employers whose cooperation made this investigation possible. We should especially like to thank Mr. T. Brown and Miss P. Thomson of Glenfield Mill, Nelson, Dr. D. Hill, of the Shirley Institute, and Mr. Shaw, of the Nelson and District Weavers Association.

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Vigliani, E., Parmeggiani, L., and Sassi, C. (1954). *Med. d. Lavoro*, 45, 349.  
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## Congresses on Occupational Health

### XIIth International Congress on Occupational Health

The XIIth International Congress on Occupational Health will be held in Helsinki from July 1 to 6, 1957. The Committee hopes that the Congress will receive the cordial support and attendance of doctors, engineers, chemists interested in occupational medicine and hygiene, research workers and teachers in this field, social insurance workers, industrial and public health nurses, and others. The International Social Security Association will assist in the preparation of the reports concerned with the social aspects of occupational health.

The preliminary programme is divided into (1) Congress subjects, (2) section subjects, (3) reviews, (4) round table, and (5) group meetings. The Congress subjects are:— Industrial noise, evaluation of invalidity, industrial hygiene norms, and cardiacs and work.

There will be an opportunity before and after the Congress for members to visit and acquaint themselves with the organization and operation of occupational medicine and hygiene in other Scandinavian countries. There will be an excursion on July 7 to industrial establishments and hospitals in various parts of Finland.

The official languages of the Congress are English, French, German, and Spanish.

In addition to the general social programme, a special programme will be arranged for the ladies of the Congress.

The Nicolo Castellino prize, value 3,000,000 lire, will be awarded for the first time at the Congress at Helsinki. The award will be made for what, in the opinion of the assessors, is adjudged to be the most outstanding investigation in the field of occupational health by a research worker, who must be under the age of 35 years and is not the holder of a university chair. Details of the competition will be published at an early date by the Directors of the Fund or can be obtained direct from Directors of Nicolo Castellino Prize, The University, Naples, Italy.

To discover the best films in the field of occupational

health a film competition will be organized in connexion with the Congress.

Detailed information can be obtained from the Organizing Committee.

The Congress fee for members is £5.8s. and for associate members £3.12s.

Notification of intention to be present must be made by May 1, 1957. Hotel accommodation cannot be guaranteed after that date.

Details of the preliminary programme and any further information relating to the Congress may be had on application to the Organizing Committee, c/o Työterveyslaitos, Haartmaninkatu 1, Helsinki-Töölö. Chairman, Dr. Leo Noro, and Secretary-General, Dr. Pentti Sumari.

### Post-graduate Courses on Advances in Occupational Medicine

From Thursday, August 1, to Thursday, August 15, 1957, the first Latin-American post-graduate course on advances in occupational medicine will be held at Caracas, Venezuela, organized by the American Union of Occupational Medicine.

The American Union has invited the collaboration of well-known European and American authorities on industrial medicine to ensure a high scientific standard. The course can be attended by doctors, industrial engineers, and industrial chemists.

Venezuela's Government has offered lodging at the University's residence and meals prepared by the National Institute of Nutrition at very reasonable prices.

Each participant in the course will receive a special certificate and copies of the proceedings.

The course will be coordinated by Professor Dr. José Pedro Reggi, Argentine, General Director of the American Union of Occupational Medicine.

The Secretary's Office of the American Union of Occupational Medicine, Arenales 981, Buenos Aires, Argentina, will give all the information required.

All existing chapters have been completely revised and new sections have been added on the use of antibiotics in infective lesions, cross finger flaps for acute injuries, reconstruction of the damaged thumb, burns of the hand and arm, and a valuable section on the surgery of rheumatoid arthritis. In addition there are over 200 new illustrations.

Its size and price (7 guineas) may put it beyond the reach of many who would wish to possess it, but as a work of reference it could hardly be bettered, and it can be recommended without reserve.

HAROLD BOLTON

**X-Rays: Their Origin, Dosage, and Practical Application**, 7th ed. (Pp. vii + 331; 339 illustrations, 42s.) Bristol: John Wright. 1956.

This well-known textbook has been enlarged and now includes an excellent section on industrial radiography. It was originally published as an introduction to basic and radiation physics and x-ray apparatus construction; these chapters are comprehensive and with the aid of the diagrams and illustrations it is possible to obtain a good understanding of the fundamentals of x-ray physics, but the style of writing is "chatty" and often confusing.

The chapters on film technique and diagnosis are too general and require revision to bring them up to date; the serious reader would be well advised to refer to more experienced writers in these subjects. On page 200, it is stated "in medical radiography the density (photographic) is always very low—well below 1." Actually in chest radiography the density range is 0.3-1.5. The factors given in the exposure table (page 239) should be used with caution, especially the suggestion of using focal-film distance of 27 in. for bone radiography. Silver recovery by precipitation (page 211) is impracticable, and no mention is made of the modern method of electrolysis now in use in most large departments. On page 287 macroradiography is described under the heading of "microradiography".

The tables at the end of the book are very useful but few radiologists would agree that chest screening (Table 18) may be carried out for a maximum of up to 60 minutes per three-week period. The inclusion of a bibliography would be helpful. The book can be highly recommended for the sections on basic and radiation physics, therapy, and x rays in industry. The chapters on the practical applications in the medical field require drastic revision. It is very well produced; the excellent illustrations contribute much to the value of this edition.

WILLIAM G. CLARKE

#### Books Received

(Review in a later issue is not precluded by notice here of books recently received.)

**Expert Committee on Professional and Technical Education of Medical and Auxiliary Personnel: Third Report.** World Health Organization Technical Report Series No. 109. (Pp. 19. 1s. 9d.) London: H.M. Stationery Office; Geneva: World Health Organization. 1956.

**La Lutte Contre L'Incendie dans les Ateliers de Nettoyage à Sec Utilisant des Solvants Inflammables.** By A. Vallaud and P. Salmon. (Pp. 96; 13 figures. Free.) Paris: Institut National de Sécurité, 9, Avenue Montaigne, Paris, VIII<sup>e</sup>. 1956.

**Lavorazioni che Espongono all'azione della Naftalina Omologhi—Naftoli e Naftilammine—Derivati Alogenati—Solfonati e Nebrati della Naftalina ed Omologhi.** By Raffaella Guiliano and Mario Rafanelli. (Pp. 100 + index; illustrated. No price given.) Rome: Istituto Nazionale per l'Assicurazione contro gli Infortuni sul Lavoro. 1956.

**Sicherheit und Gesundheit im Betrieb bei Transport und Verkehr.** (*Verhandlungen der Deutschen Gesellschaft für Arbeitsschutz*, Vol. 4.) Edited by E. Mager, W. Mutschler, and H. Steeg. (Pp. viii + 308; 104 figures. DM 25.-.) Darmstadt: Verlag Dr. Dietrich Steinkopff. 1956.

**Manual of Industrial Medicine**, 3rd ed. By Lemuel C. McGee. (Pp. x + 212. 24s.) London: Oxford University Press. 1956.

**A Short History of Public Health.** By C. Fraser Brockington. (Pp. vii + 235. 15s.) London: J. & A. Churchill. 1956.

**The Treatment of Fractures**, Vol. I. By Lorenz Böhler. (Pp. xxxii + 1072; 1527 figures. \$24.50.) New York: Grune & Stratton. 1956.

**Annual Report 1955-56.** (Pp. 259. 5s.) London: British Standards Institution. 1956.

**The Bencard Manual of Allergy.** (Pp. 95; illustrated. Free.) London: C. C. Bencard. 1956.

**Chronicle of the World Health Organization**, Vol. 10, No. 8, August, 1956. (Pp. 39; 6 figures. 1s. 9d.) Geneva: World Health Organization.

**The Nuffield Foundation Eleventh Report.** (Pp. 160. Free.) London: The Nuffield Foundation. 1956.

**Atti del XX° Congresso Nazionale di Medicina del Lavoro**, Padova—Venezia, 22-25 Sept., 1955. (Pp. xxv + 865; illustrated. L. 4,000.-.) Milan: Arnoldo Mondadori. 1955.

**Médecine du Travail**, 2nd ed. Edited by Prof. C. Simonin in collaboration with various authors. (Pp. xii + 1406; 326 figures. Fr. frs. 6,800.-.) Paris: Librairie Maloine. 1956.

**Urology and Industry.** By Leonard Paul Wershub. (Pp. xviii + 151. 37s. 6d.) Oxford: Blackwell; Springfield, Illinois: Charles C. Thomas. 1956.

**A Textbook of Psychiatry**, 8th ed. By Sir David Henderson and the late R. D. Gillespie. (Pp. xii + 746. 35s.) London: Oxford University Press. 1956.

**The Adaptation of Recreational Activities for Men in the Rehabilitation of Lower Limb Injuries.** By Veida Barclay. (Pp. ix + 154; illustrated. 18s. 6d.) London: G. Bell & Sons. 1956.

**First Aid in Coal Mines**, 3rd ed. (Pp. 126; 21 figures. 2s. 3d.) London: The St. John Ambulance Association. 1956.

**The Slough Industrial Health Service: Ninth Annual Report 1955-56.** (Pp. 36. 2s.) Windsor: Oxley & Son. 1956.

**The First Hundred Years: Cortivosteroid Therapy.** (Pp. 92. Free.) Folkestone: Pfizer Ltd. 1956.

**An Annotated Catalogue of the Mutant Genes of the House Mouse.** By H. Grüneberg. Medical Research Council Memorandum No. 33. (Pp. 28. 2s. 6d.) London: H. M. Stationery Office. 1956.

**Living Conditions and Health.** A Quarterly Medical Journal, Vol. 1, No. 1, 1956. (7s. 6d. per copy, 26s. annual subscription.) London: The Caversham Centre. 1956.

**Air Pollution Handbook.** Edited by Paul L. Magill, Francis R. Holden, and Charles Ackley; Editorial Consultant: Frederick G. Sawyer. (Pp. xi + 14 sections; illustrated. £5. 12s. 6d.) London: McGraw-Hill Book Co., Inc. 1956.

**Digest of Pneumoconiosis Statistics, 1955.** [Ministry of Fuel and Power.] London: H.M. Stationery Office (3s.) 1956.

**In Their Early Twenties: A Study of Glasgow Youth.** By T. Ferguson and J. Cunnison. (Pp. vi + 110. 12s. 6d.) London: Oxford University Press. 1956.

**Symposium of Tuberculosis.** Edited by F. R. G. Heaf. (Pp. xvi + 755; 78 plates, 54 figures. £5. 5s.) London: Cassell. 1957.

**Report on the Health of the Army, 1953.** [The War Office.] (Pp. 125.) London: H.M. Stationery Office. 1956.

**Occupational First Aid, 1st ed.** (Pp. 64; illustrated. 2s.) London: The St. John Ambulance Association. 1956.

**Industrial Deafness.** By Joseph Sataloff. (Pp. xiv + 333; illustrated. 60s.) London: McGraw-Hill Publishing Co. 1957.

**The National Corporation for the Care of Old People: Ninth Annual Report for the Year Ended 30th Sept., 1956.** (Pp. 54.) London: The Nuffield Foundation. 1957.

**The Treatment of Fractures, Vol. II.** By Lorenz Böhler. (Pp. viii + 438; 941 figures. \$17.50.) New York: Grune & Stratton. 1957.

**Le Otopatie Da Rumore E Nozioni Di Audologia.** By Vittorino Pescetti. (Pp. xii + 96; 17 figures. L. 1,200.-) Rome: Edizioni E.N.P.I. 1956.

**I Fondamenti Igienico-Fisiologici Della Illuminazione Razionale.** By Antonio Tizzano. (Pp. x + 75; 53 figures. L. 1,200.-) Rome: Edizioni E.N.P.I. 1956.

**The Diseases of Occupations.** Second enlarged and revised edition. By Donald Hunter. (Pp. xvii + 1100; 447 figures. £5. 5s.) London: The English Universities Press. 1957.

**Principles of Epidemiology.** By Ian Taylor and John Knowelden. (Pp. vii + 300; 26 figures. 30s.) London: J. & A. Churchill. 1957.

**Reactions of Mines-rescue Personnel to Work in Hot Environments.** By A. R. Lind, J. S. Weiner, R. F. Hellon, R. M. Jones, and D. C. Fraser. [Medical Research Council Memorandum.] (Pp. 68.) London: The National Coal Board. 1957.

**Youth at Work: A study of adolescents in industry by an Appointed Factory Doctor.** By M. E. M. Herford; Forewords by James M. Mackintosh and T. N. F. Wilson. (Pp. xvi + 154 + appendix. 18s. 6d.) London: Max Parrish. 1957.