

of the paint coat, including consideration of the functions of priming coats and the finishing coat. All members of the Society are cordially invited to attend.

Chemical Society: Announcements

The following announcements were made at an ordinary scientific meeting held on October 19:

At the ordinary scientific meeting on November 16 Dr. R. Fraser Thomson will open a discussion on "Condensed Aromatic Ring Systems."

Applications for grants from the Research Fund must be received by December 1; applications from Fellows will receive prior consideration. All persons who have received grants and whose accounts have not been declared closed are reminded that reports must be returned by December 1.

The list of Fellows for 1933 can be obtained, price 1s., from the assistant secretary.

The Annual Chemical Dinner will be held at the Wharfedale Rooms, Hotel Great Central, N.W.1, on Tuesday, November 28, at 7 for 7.30 p.m. Tickets, price 12s. 6d. each, can be obtained from Mr. F. A. Greene, Chemical Club, 2, Whitehall Court, S.W.1.

On Wednesday, November 8, in the meeting room of the Chemical Society, Drs. J. G. King, L. Horton, and F. A. Williams will read a paper before the Institute of Fuel entitled "The Progressive Action of Hydrogen on Coal." A cordial welcome is extended to Fellows of the Chemical Society to attend and take part in the discussion. Advance proofs of the paper can be obtained from the Secretary of the Institute of Fuel, 53, Victoria Street, S.W.1.

Institute of Chemistry—Pass List

The following have passed the examination in General Chemistry for the Associateship of the Institute of Chemistry: Cooper, N. E., Currington, Joan M., Finklestone, E., Garrett, H. E., Heading, W. R., Heron, N., Holt, P. F., Macnair, J. A., Marriott, J. A., McKinlay, R. H., Merry, J. S., Peacop, J. T., Shanks, S., Stevens, S. G. E., Tattersall, J., Waye, B. E., Young, J. H.

The following have passed the examination for the Fellowship: in Branch A (inorganic chemistry, with special reference to metallurgy), Harrison, W. F.; in Branch C (organic chemistry), Cooksey, A.; in Branch D (biochemistry), Loach, J. V.; (biochemistry, with special reference to the chemistry of proteins), Aitken, H. A. A.; in Branch E (the chemistry, including microscopy, of food and drugs, and of water), Johnson, F. R., Parekh, M. M.

Evasion of Dyestuffs Import Duties

Mr. T. Rowe, a chemical manufacturer of Worsley Street Chemical Works, Salford, was recently fined £70 and ordered to pay £40 costs for attempting to evade Customs duties and for making false declarations in respect of dyestuffs imported from France. The summonses related to under-payment of duties stated to total £631.

Post Office Research

Many scientists and engineers attended the opening of the Post Office Research Station at Dollis Hill, London, on October 23. The buildings and workshops cover eight acres and have cost approximately £150,000, and the staff numbers 215, including 95 research engineers.

MARKET REPORT

This Market Report is compiled from special information received from the manufacturers concerned.

Unless otherwise stated, the prices quoted below cover fair quantities net and naked at sellers' works.

The following alterations in prices are reported since the publication of the last Market Report (cf. *CHEM. & IND.*, Oct. 6, 1933, p. 802).

TAR PRODUCTS

Xylof.—2s. 5d.—2s. 6d. per gal. Pure, 2s. 6d.—2s. 7d.

INTERMEDIATES

Items marked thus * d/d buyers' works.

*Nitrobenzene.—Spot, 4½d. per lb., in 90-gallon drums, drums extra. 1-ton lots.

PATENT LIST

The following is a list of complete specifications of chemical interest which are open for inspection under Section 31 (1) (a) of the Patent Acts. Printed copies are not available, but photographic copies may be obtained at a charge of 8d. per page (minimum 1s.) from the Patent Office, Chancery Lane, W.C.2.

I. 10,091 (1933). I. G. Farbenind. Apparatus for measuring densities or opacities.

II. 10,258 and 10,371 (1933). Rouault. Treatment of bitumen, pitch, and tar.

10,372—3 (1933). Rouault. Treatment of natural or artificial bitumen, asphalt, and similar products.

III. 5469 (1933). Henkel & Co. Manufacture of high-molecular mercaptans.

7871—2 (1933). Chem. Fabr. vorm. Sandoz. Manufacture of aminonaphtholsulphonic acids containing residues of bile acids and the manufacture of dyestuffs therefrom.

9638 (1933). Chem. Works, formerly Sandoz. See VI.

10,122 (1933). Deuts. Hydrierwerke. See VI.

10,260—1 (1933). Wülfig and Möller. Making compounds containing heavy metals and sulphhydryl groups from keratinates.

IV. 7871—2 (1933). Chem. Fabr. vorm. Sandoz. See III.

V. 9746 (1933). Jacobs. Preparing fibres for spinning.

10,200 (1933). Liebowitz. Washable textile fabrics permeable by air and moisture.

VI. 9638 (1933). Chem. Works, formerly Sandoz. Wet-ting, foaming, detergent, emulsifying, and dispersing agents, and process of preparing them.

10,122 (1933). Deuts. Hydrierwerke. Manufacture and utilization of substances suitable for use as penetrating, wetting, emulsifying, dispersing, foaming, cleansing, and like agents.

VII. 9997 (1933). I. G. Farbenind. Manufacture of potassium dichromate.

10,217 (1933). I. G. Farbenind. Production of caustic alkalis in a form suitable for packing and transport.

X. 16,939 (1932). Gravell. Metal-cleaning compositions. 6556 (1933). Krupp A.-G. Treatment of austenitic chromium-nickel steel alloys.

10,040 (1933). Junker Ges. See XI.

XI. 10,040 (1933). Junker Ges. Electric furnaces for the heat-treatment of metallic strip.

XII. 9969 (1933). Standard Oil Co. Preparing fatty oils.

XIII. 10,116 (1933). Brit. Celanese, Ltd. Synthetic resins and their manufacture.

10,360—1 (1933). Lövinsohn, Schnellling, and Lövinsohn. Light-fast inks for printing with rubber printing surfaces.

10,442 (1933). Du Pont de Nemours & Co. Manufacture of paints, enamels, and lacquers.

10,581 (1933). Du Pont de Nemours & Co. Manufacture of mixed esters of polyhydric alcohols and resins and coating compositions manufactured therefrom.

XIV. 1901 (1933). Goodyear Tire & Rubber Co. Vulcanization of rubber.

9929 (1933). Internat. Latex Processes. Production of rubber bands, thread, strips, etc.

XXI. 10,719 (1933). Telefunken Ges. f. Drahtlose Telegraphie. Luminescent screens and luminophores for use therein.

GENERAL NOTES

Official Trade Intelligence

The Department of Overseas Trade (Development and Intelligence), 35, Old Queen Street, London, S.W.1, has received the following inquiries for British goods. British firms may obtain further information by applying to the Department and stating the specific number. *Argentina*: Lubricating oils (448). *Australia*: Stainless steel and nickel alloy sheets (422). *Austria*: Soap (430); Paper (431). *British West Indies, Trinidad*: Linseed oil, raw and boiled (423). *Canada*: Oxyacetylene welding rods (424). *Hungary*: Paint, dyes, and colours (439).

Safeguarding of Key Industries

On November 17 and 18 there will be a hearing of the complaint which the Board of Trade has received under Section 1 (5) of the Safeguarding of Industries Act, 1921, that insulin and its salts have been improperly excluded from List H (iii) of articles chargeable with duty under Part I of that Act, as amended by Section 10 of the Finance Act, 1926. The hearing will commence at 10.30 a.m. in the conference room, No. 47, Board of Trade, Great George Street, London, S.W.1, and the tribunal will consist of: Hon. S. O. Henn Collins, C.B.E., K.C. (the referee), Prof. F. G. Donnan, C.B.E., F.R.S., and Prof. Samuel Smiles, O.B.E., F.R.S.

An additional list of articles chargeable with duty under Part I of the Safeguarding of Industries Act, 1921, has been issued by the Board of Trade, and will take effect as from November 3, 1933. This list refers to articles under the following heading: Synthetic, organic and other fine chemicals. Copies of the list may be obtained from H.M. Stationery Office (1d.).

Nickel in Electric Furnaces

To-day many of the older methods of low-temperature heat treatment, e.g., baths of oil, lead, or salt, are giving place to new types of forced air circulation electric furnaces. An article in *The Nickel Bulletin*, Vol. 6, Nos. 8—9, describes in an interesting way the extent to which the use of nickel enters into the construction of such furnaces. Another short article shows how nickel is being employed in solving problems caused by corrosion in hydraulic engineering. *The Nickel Bulletin* can be obtained from the Mond Nickel Co., Ltd., Thames House, Millbank, London, S.W.1.

PUBLICATIONS RECEIVED

A STUDY OF THE REFINING OF A BURMAH CRUDE OIL WITH SPECIAL REGARD TO THE COLOUR REVERSION CHARACTERISTICS OF THE LUBRICATING OIL DISTILLATES. By A. R. Bowen, M.Sc., Ph.D. Pp. 12. Reprinted from the *Journal of the Institution of Petroleum Technologists*, Vol. 19, No. 115, Pp. 364—375, May, 1933.

PROSPECTUS OF UNIVERSITY COURSES IN THE MUNICIPAL COLLEGE OF TECHNOLOGY, MANCHESTER: SESSION 1933—34. Pp. 382.

BIOCHEMICAL AND ALLIED RESEARCH IN INDIA IN 1932. Pp. 86. India: Society of Biological Chemists.

KOHLENWASSERSTOFFÖLE UND FETTE: SOWIE DIE IHNEN CHEMISCH UND TECHNISCH NAHESTEHENDEN STOFFE. Revised and edited by Prof. Dr. D. Holde together with Dr.-Ing. W. Blayberg. 7th revised ed. Pp. xi + 1046. Berlin: J. Springer, 1933. 78 rm.

REPORT OF THE GOVERNMENT CHEMIST UPON THE WORK OF THE GOVERNMENT LABORATORY FOR THE YEAR ENDING MARCH 31, 1933. Pp. 46. London: H.M. Stationery Office, 1933. 9d.

PHYSICAL CHEMISTRY OF LIVING TISSUES AND LIFE PROCESSES. By R. Beutner, M.D., Ph.D. Pp. x + 337. London: Baillière, Tindall & Cox, 1933. 25s.

LIQUID CRYSTALS AND ANISOTROPIC MELTS. A GENERAL DISCUSSION HELD BY THE FARADAY SOCIETY, APRIL, 1933. Pp. 881—1085. London: The Faraday Society, 1933. 12s. 6d.

REPORT ON THE ECONOMIC SITUATION IN NORWAY TO THE END OF JUNE, 1933. Ref. No. C. 4188. Pp. 27. London: Department of Overseas Trade, 1933.

REPORT OF THE FOREST PRODUCTS RESEARCH BOARD: WITH THE REPORT OF THE DIRECTOR OF FOREST PRODUCTS RESEARCH FOR THE YEAR 1932. Department of Scientific and Industrial Research. Pp. vi + 58. London: H.M. Stationery Office, 1933. 4s.

KOLLOIDCHEMIE DER EIWEISSKÖRPER. By Prof. Dr. W. Pauli and Dr. E. Valkó. 2nd revised ed. Handbuch der Kolloidwissenschaft in Einzeldarstellungen. Vol. VI. Pp. xiv + 353. Dresden and Leipzig: T. Steinkopf, 1933. Paper, 28 rm.; bound, 30 rm.

SOME PHYSICAL PROPERTIES OF THE COVALENT LINK IN CHEMISTRY. By N. V. Sidgwick. The George Fisher Baker Non-Resident Lectureship in Chemistry at Cornell University. Pp. 249. New York: Cornell University Press; London: H. Milford, Oxford University Press, 1933. 10s.

TRANSACTIONS OF THE INSTITUTION OF CHEMICAL ENGINEERS. Vol. 10, 1932. Pp. 191. London: Institution of Chemical Engineers. 21s.

SOLVENTS. By T. H. Durrans, D.Sc., F.I.C. Being Vol. 4 of a Series of Monographs on Applied Chemistry. Edited by E. H. Tripp, Ph.D. 3rd and revised ed. Pp. xvii + 205. London: Chapman & Hall, 1933. 10s. 6d.

MASS-SPECTRA AND ISOTOPES. By F. W. Aston, Sc.D., F.I.C., F.R.S. Pp. xii + 248. London: E. Arnold & Co., 1933. 15s.

ALLEN'S COMMERCIAL ORGANIC ANALYSIS. Edited by C. Ainsworth Mitchell, M.A., D.Sc., and several contributors. Vol. X, 5th ed., revised and partly rewritten. Proteins of Blood etc., Vitamins, Hormones, Woods and Charcoals, Pectic Substances. General Index. Pp. xi + 817. London: J. & A. Churchill, 1933. 32s.