

## FORTHCOMING PAPERS

The next issue of the *British Journal of Nutrition* will appear in June. It is hoped to publish in it the following papers:

Bracken (*Pteridium aquilinum*): the effect of steaming on the nutritive value of bracken hay. By D. R. WILLIAMS and R. A. EVANS.

A shortened version of the Mitchell method for determination of the biological value of protein. Growth rate as a source of error. By L. R. NJAA.

Biological value of herring-meal protein. Urinary nitrogen excretion in relation to protein content of diet and food intake. By L. R. NJAA.

The nutritive value of bread protein as influenced by the level of protein intake, the level of supplementation with L-lysine and L-threonine, and the addition of egg and milk proteins. By J. B. HUTCHINSON, T. MORAN and J. PACE.

The use of *Dolichos lablab* and *Lathyrus sativus* in the making of *taamiah* (bean cakes) in Egypt. By SABRY RIAD MORCOS and AMAL MORGAN BOCTOR.

A re-examination of the effect of vitamin B<sub>12</sub> concentrate on the hepatic injury produced by carbon tetrachloride. By K. ATERMAN and D. DARLINGTON.

Studies of the nutrition of the young calf. 2. The nutritive value of unhydrogenated palm oil, unhydrogenated palm-kernel oil, and butterfat, as additions to a milk diet. By A. M. RAVEN and K. L. ROBINSON.

Diet in pregnancy. 2. Assessment of the nutritive value of diets, especially in relation to differences between social classes. By A. M. THOMSON.

The effects of continuous administration of penicillin to successive generations of chicks. By M. E. COATES and M. K. DAVIES.

The metabolism of nitrogen, calcium and phosphorus in undernourished children. 5. The effect of partial or complete replacement of rice in poor vegetarian diets by ragi (*Eleusine coracana*) on the metabolism of nitrogen, calcium and phosphorus. By KANTHA JOSEPH, P. P. KURIEN, M. SWAMINATHAN and V. SUBRAHMANYAN.

The effect of white scours on the sodium and potassium concentration in the serum of newborn calves. By J. H. B. ROY, K. W. G. SHILLAM, GILLIAN M. HAWKINS, JILL M. LANG and P. L. INGRAM.

Serum-cholesterol levels and atherosclerosis: effects of composition of diet and tri-iodo-thyronine on the rat. By W. F. J. CUTHBERTSON, P. V. ELCOATE, D. M. IRELAND, D. C. B. MILLS and PATRICIA SHEARLEY.

# CONTENTS OF VOLUME 13, No. 1, 1959

(All rights reserved)

|   | PAGE |
|---|------|
| The diet of sledge dogs. By R. J. F. TAYLOR, A. N. WORDEN & C. E. WATERHOUSE . . . . .  | 1    |
| Water and electrolyte exchanges of obese patients on a reducing regimen. By R. PASSMORE, J. A. STRONG and FIONA J. RITCHIE . . . . .  | 17   |
| Studies of the rate of passage and disappearance in the intestine of the goat of carotene dissolved in fat and mixed with chromium sesquioxide. By E. C. OWEN, R. A. DARROCH and R. PROUDFOOT . . . . . | 26   |
| Selenium, liver necrosis and depigmentation of incisors in the rat. By K. ATERMAN . . . . .   | 38   |
| Determination of the total daily energy expenditure in man by indirect calorimetry: assessment of the accuracy of a modern technique. By J. V. G. A. DURNIN and J. M. BROCKWAY . . . . .                | 41   |
| Error in the provision of diets of known electrolyte content. By C. T. G. FLEAR, PAT HUGHES and AILSA McLELLAN . . . . .  | 54   |
| Body composition of rats in B-vitamin deficiencies. By K. GUGGENHEIM and E. J. DIAMANT . . . . .  | 61   |
| The use of surface area and of body-weight as standards of reference in studies on human energy expenditure. By J. V. G. A. DURNIN . . . . .  | 68   |
| Vitamin B <sub>12</sub> in the developing chick embryo. By B. SKARŻYŃSKI, Z. ŻAK, W. OSTROWSKI, MARY K. DAVIES, MARGARET E. GREGORY and S. K. KON . . . . .   | 72   |
| Growth response to dietary penicillin of germ-free chicks and of chicks with a defined intestinal flora. By M. LEV and M. FORBES . . . . .  | 78   |
| The dietary intake and activities of an Alaskan mountaineering expedition. By J. D. KINLOCH . . . . .   | 85   |
| Cod-liver oil as both source and antagonist of vitamin E. By T. MOORE, I. M. SHARMAN and R. J. WARD . . . . .   | 100  |
| The conversion of 11- <i>cis</i> into all- <i>trans</i> vitamin A in the rat. By P. A. PLACK . . . . .  | 111  |

## INDEX OF AUTHORS

|                             |        |                           |     |
|-----------------------------|--------|---------------------------|-----|
| Aterman, K. . . . .         | 38     | McLellan, A. . . . .      | 54  |
| Brockway, J. M. . . . .     | 41     | Moore, T. . . . .         | 100 |
| Darroch, R. A. . . . .      | 26     | Ostrowski, W. . . . .     | 72  |
| Davies, M. K. . . . .       | 72     | Owen, E. C. . . . .       | 26  |
| Diamant, E. J. . . . .      | 61     | Passmore, R. . . . .      | 17  |
| Durnin, J. V. G. A. . . . . | 41, 68 | Plack, P. A. . . . .      | 111 |
| Flear, C. T. G. . . . .     | 54     | Proudfoot, R. . . . .     | 26  |
| Forbes, M. . . . .          | 78     | Ritchie, F. J. . . . .    | 17  |
| Gregory, M. E. . . . .      | 72     | Sharman, I. M. . . . .    | 100 |
| Guggenheim, K. . . . .      | 61     | Skarżyński, B. . . . .    | 72  |
| Hughes, P. . . . .          | 54     | Strong, J. A. . . . .     | 17  |
| Kinloch, J. D. . . . .      | 85     | Taylor, R. J. F. . . . .  | 1   |
| Kon, S. K. . . . .          | 72     | Ward, R. J. . . . .       | 100 |
| Lev, M. . . . .             | 78     | Waterhouse, C. E. . . . . | 1   |
|                             |        | Worden, A. N. . . . .     | 1   |
|                             |        | Żak, Z. . . . .           | 72  |