

	PAGE
The incidence of pressure waves in the rumen of cattle. By A. T. PHILLIPSON and C. S. W. REID	xxvii
Xanthine oxidase in human milk. By E. C. OWEN and F. E. HYTTEN	xxviii
Leakage of bone marrow and the consequent staining of the legs of broiler carcasses during storage at various frozen and chill temperatures. By D. H. SHRIMPTON	xxviii
Some effects of dietary sucrose in experimental protein deficiency. By I. MACDONALD and E. M. GHARAVI	xxix
The voluntary food intake of sheep. By K. L. BLAXTER, F. W. WAINMAN and R. S. WILSON	xxx
Fat synthesis from glucose by sheep. By D. G. ARMSTRONG, K. L. BLAXTER and N. McC. GRAHAM	xxxi
The effect of dietary additions of amino acids on nitrogen retention in young pigs. By A. S. JONES and W. R. HEPBURN	xxxii
Rheumatoid-like joint lesions in guinea-pigs with chronic partial vitamin C deficiency. By E. KODICEK	xxxiii
Correlations of albumin and vitamin A in the serum of protein-malnourished pigs. By C. J. FRIEND, C. R. C. HEARD, B. S. PLATT, R. J. C. STEWART and M. R. TURNER	xxxiv
Glycogen and glucose-6-phosphatase in the liver of normal and protein-deficient pigs. By PAMELA A. J. DURBIN, C. R. C. HEARD and B. S. PLATT	xxxv
The relation between net protein utilization (N.P.U.) and protein : calorie ratio. By D. S. MILLER and P. R. PAYNE	xxxvi
A nomogram for the prediction of the protein value of diets. By D. S. MILLER and P. R. PAYNE	xxxvii
Clinical and cytological manifestations of protein malnutrition in the skin of pigs. By K. O. GODWIN	xxxviii
Diurnal variations in venous-blood reducing sugar in ruminating calves. By R. D. NDUMBE and T. R. PRESTON	xxxix

INDEX OF AUTHORS

Armstrong, D. G. xvii, xxxi	Graham, N. McC.	xxxii	Ogilvie, J. M.	xviii
Barber, R.	Gresham, G. A.	xxiv	Owen, E. C. 154, xxi, xxviii	
Bender, A. E.	Heard, C. R. C. xxxiv, xxxv		Payne, P. R. xxxvi, xxxvii	
Blaxter, K. L.	Hepburn, W. R.	xxxii	Phillipson, A. T.	xxvii
xvi, xvii, xxx, xxxi	Howard, A. N.	xxiv	Platt, B. S.	xxxiv, xxxv
Boucher, C. A.	Hutchison, W. C.	xxxiii	Porter, J. W. G.	xxvi
Braude, R.	Hyttén, F. E.	xxviii	Preston, T. R. xviii, xxxix	
Chalmers, M. I.	Jones, A. S.	xxxii	Qureshi, R. U.	xix
Charleson, E. M.	Kodicek, E.	xxxiii	Ramaiah, T. R.	xxiii
Chatt, E. M.	Langlands, J. P.	xx	Reid, C. S. W.	xxvii
Clapperton, J. L.	Macdonald, I.	xxix	Reid, G. W.	xx
Comfort, A.	Miller, D. S. xxxvi, xxxvii		Robertson, J.	xxi
Corbett, J. L.	Mills, C. F.	162	Sharman, G. A. M.	169
Cuthbertson, D. P.	Mitchell, K. G.	xxvi	Sharman, I. M.	xv
Durbin, P. A. J.	Mitchell, R. L.	148	Shrimpton, D. H.	xxviii
Durnin, J. V. G. A.	Moore, T.	xv	Stewart, R. J. C.	xxxiv
Earl, C. J.	Mukerji, D.	xxii	Tunbridge, R. E.	144
Ellis, S. E.	Munro, H. N.	xxii, xxxii	Turner, M. R.	xxxiv
Florence, E.	Nairn, D. J.	xix	Voss, R. C.	xxi
Franklin, K. J.	Ndumbe, R. D. xviii, xxxix		Wainman, F. W.	xvi, xxx
Friend, C. J.	Neilson, F. J.	xxiii	Whitelaw, F. G.	xviii
Garry, R. C.	Nelson-Smith, A.	xxv	Wilson, A. L.	xxi
Gharavi, E. M.	Newman, D.	116	Wilson, R. S.	xxx
Godwin, K. O.	Nordin, B. E. C.	129	Woodford-Williams, E. 120	

FORTHCOMING ISSUE

It is hoped to publish in the next issue of the *Proceedings of The Nutrition Society* reports of symposia on Food Losses in Field and Store (2 July 1960), Food Habits in Britain (24 September 1960) and Calorie Balance in Man (17 December 1960) and abstracts of communications to be presented at the meeting for original communications on 19 November 1960.

CONTENTS OF VOLUME 19, No. 2, 1960

(All rights reserved)

SYMPOSIUM PROCEEDINGS

One Hundred and Thirty-first Scientific Meeting

NUTRITION AND THE ELDERLY

	PAGE
Nutrition and the elderly: Chairman's opening remarks. By R. C. GARRY	107
The physiological changes which occur in a man as he grows older. By K. J. FRANKLIN	108
The social medicine of old age. By C. A. BOUCHER	112
Nutritional problems encountered in social work among the elderly. By DENISE NEWMAN	116
The clinical medicine of old age. By ELuned WOODFORD-WILLIAMS	120
Nutrition and longevity in animals. By A. COMFORT	125
Osteoporosis and calcium deficiency. By B. E. C. NORDIN	129
Disorders of the nervous system in malnutrition. By C. J. EARL	137
Intake and expenditure of calories by the elderly. By J. V. G. A. DURNIN	140
Nutrition and the elderly: Chairman's closing remarks. By R. E. TUNBRIDGE	144

One Hundred and Thirty-second Scientific Meeting

MINOR ELEMENTS IN NUTRITION

Minor elements in nutrition: Chairman's opening remarks. By D. P. CUTHBERTSON	147
Trace elements in Scottish soils. By R. L. MITCHELL	148
Biochemical function of some of the minor elements. By E. C. OWEN	154
Comparative studies of copper, molybdenum and sulphur metabolism in the ruminant and the rat. By C. F. MILLS	162
Selenium in animal health. By G. A. M. SHARMAN	169
Adventitious metals in processed foods. By E. M. CHATT	176

ABSTRACTS OF COMMUNICATIONS

One Hundred and Thirtieth Scientific Meeting

Calcium deficiency in rats fed upon meat. By T. MOORE and I. M. SHARMAN	xv
The effect of environmental temperature on the energy metabolism of steers. By K. L. BLAXTER and F. W. WAINMAN	xvi
The effect of muscular work on the energy metabolism of sheep. By J. L. CLAPPERTON, D. G. ARMSTRONG and K. L. BLAXTER	xvii
The effect of including stabilized tallow in the concentrate mixture fed to early-weaned calves. By T. R. PRESTON, F. G. WHITELAW, R. D. NDUMBE and EUPHEMIA B. CHARLESON	xviii
The effect of glucose introduced into the abomasum and rumen on the utilization of casein administered orally to sheep. By MARGARET I. CHALMERS and J. M. OGILVIE	xviii
A nutritional study of three common fats of the Pakistani dietary. By D. J. NAISMITH and RAHMAT U. QURESHI	xix
Further studies on the administration of chromium sesquioxide as a component of paper. By J. L. CORBETT, G. W. REID, J. P. LANGLANDS and E. FLORENCE	xx
The occurrence of phosphates of calcium on cobalt oxide 'bullets' administered to lambs to prevent pinning. By E. C. OWEN, S. E. ELLIS, R. C. VOSS, A. L. WILSON and J. ROBERTSON	xxi
The mechanism by which administration of individual amino acids causes changes in the ribonucleic-acid metabolism of the liver. By H. N. MUNRO and D. MUKERJI	xxii
The influence of diet on the protein, nucleic-acid and phospholipid content of the adrenal gland. By W. C. HUTCHISON, T. R. RAMAIAH, FRANCES J. NEILSON and H. N. MUNRO	xxiii

One Hundred and Thirty-third Scientific Meeting

Cholesterol concentration in plasma and organs of rats given thrombogenic and atherogenic diets. By A. N. HOWARD and G. A. GRESHAM	xxiv
Determination of gastric-acid secretion using a resin-dye complex. By A. NELSON-SMITH	xxv
Visual aids for teaching nutrition. By A. E. BENDER	xxv
Copper sulphate and copper sulphide (CuS) as supplements for growing pigs. By R. S. BARBER, R. BRAUDE, K. G. MITCHELL and J. W. G. PORTER	xxvi

[Continued on p. iii of wrapper]