

**Copying.** This journal is registered with the Copyright Clearance Center, 27 Congress Street, Salem, Mass. 01970. Organizations in the USA who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of the US copyright law) subject to payment to C.C.C. of the per-copy fee of \$5.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0007-1145/91 \$5.00 + .00.

*ISI Tear Sheet Service*, 3501 Market Street, Philadelphia, Pennsylvania 19104, USA, is authorized to supply single copies of separate articles for private use only.

For all other use, permission should be sought from Cambridge or the American Branch of Cambridge University Press.

**The Proceedings of the Nutrition Society**, published by the Cambridge University Press, in part record meetings of the Symposium type, at which experts in a particular field are invited by Council to make contributions on specific parts of it and at which general discussion follows these invited contributions. The contributions will be published *in extenso*; such summaries of the ensuing discussions as circumstances warrant may also be published. The Society also holds scientific meetings at which papers are communicated by members and others on original work carried out by them. It is proposed at present to publish summaries of the papers read at each meeting, each communication being recorded in the Society's *Proceedings* by means of an abstract not exceeding in length 400 words or the equivalent space in print. The *Proceedings* are published three times a year.

The subscription to the *Proceedings* is £90.00 in UK, £93.00 elsewhere net (US \$190.00 in USA and Canada). Single issues are £31.00 (US \$69.00 in the USA and Canada) each; postage extra.

#### INDEX OF AUTHORS

Agharanya, J. C.	373	Fairweather-Tait, S. J.	487	Potkins, Z. V.	391
Ahmed, F.	475	Fernandez, Y.	497	Powers, H. J.	487
Anderson, H. R.	347	Gey, K. F.	337	Puig-Parellada, P.	497
Austin, S.	487	Haste, F. M.	347	Russell, (The late) G. R.	435
Barry, T. N.	355	Hidioglou, M.	465	Saiz, M. P.	497
Batterham, E. S.	381	Illman, R. J.	435	Smith, W. C. S.	321, 337
Beech, S. A.	381	Jackson, A. A.	475	Storer, G. B.	435
Bland, J. M.	347	Jackson, M. J.	445	Thomlinson, J. R.	391
Bolton-Smith, C.	321, 337	Jones, D. B.	475	Topping, D. L.	435
Bremner, I.	445	Kamalu, B. P.	365, 373	Trimble, R. P.	435
Brooke, O. G.	347	Karpinski, K.	465	Tunstall-Pedoe, H.	321, 337
Brown, J. C.	415	Lawrence, T. L. J.	391	Weaver, L. T.	487
Cambon-Gros, C.	497	Lind, T.	457	Whittaker, P. G.	457
Carbonell, T.	497	Livesey, G.	415	Williams, J. G.	457
Casey, C. E.	337	Lowe, N. M.	445	Woodward, M.	321
Davies, I. R.	415	Mitjavila, M. T.	497	Wright, A. J. A.	487
Dellow, D. W.	355	Mitjavila, S.	497		
Domingue, B. M. F.	355				
Dowling, K.	435				
Elliott, R.	381				

CONTENTS

**Editorial**

- Reasons for Rejection. *D. A. T. Southgate* 319-320

**Nutrient Intake and Status**

- Nutrient intakes of different social-class groups: results from the Scottish Heart Health Study (SHHS). *C. Bolton-Smith, W. C. S. Smith, M. Woodward & H. Tunstall-Pedoe* 321-335

- Antioxidant vitamin intake assessed using a food-frequency questionnaire: correlation with biochemical status in smokers and non-smokers. *C. Bolton-Smith, C. E. Casey, K. F. Gey, W. C. S. Smith & H. Tunstall-Pedoe* 337-346

- The effect of nutritional intake on outcome of pregnancy in smokers and non-smokers. *F. M. Haste, O. G. Brooke, H. R. Anderson & J. M. Bland* 347-354

**The Efficiency of Mastication**

- The efficiency of chewing during eating and ruminating in goats and sheep. *B. M. Françoise Domingue, D. W. Dellow & T. N. Barry* 355-363

**Nutritional Effects on Endocrine Function**

- The effect of a nutritionally-balanced cassava (*Manihot esculenta Crantz*) diet on endocrine function using the dog as a model 1. Pancreas. *Beryl P. Kamalu* 365-372

- The effect of a nutritionally-balanced cassava (*Manihot esculenta Crantz*) diet on endocrine function using the dog as a model 2. Thyroid. *Beryl P. Kamalu & Julius C. Agharanya* 373-379

**Utilization of Amino Acids**

- Utilization of ileal digestible amino acids by growing pigs: threonine. *S. A. Beech, E. S. Batterham & R. Elliott* 381-390

**Effects of Non-Starch Polysaccharides**

- Effects of structural and non-structural polysaccharides in the diet of the growing pig on gastric emptying rate and rate of passage of digesta to the terminal ileum and through the total gastrointestinal tract. *Z. V. Potkins, T. L. J. Lawrence & J. R. Thomlinson* 391-413

- Energy values and energy balance in rats fed on supplements of guar gum or cellulose. *I. R. Davies, J. C. Brown & G. Livesey* 415-433

*continued on page facing inside back cover*

*For Index of Authors see inside back cover*

CAMBRIDGE UNIVERSITY PRESS

The Pitt Building, Trumpington Street, Cambridge CB2 1RP  
40 West 20th Street, New York, NY 10011-4211, USA  
10 Stamford Road, Oakleigh, Melbourne 3166, Australia

*Printed in Great Britain by the University Press, Cambridge*