Volume 18, Number 3

July 1986

Journal of Biosocial Science

Published by The Galton Foundation

Cambridge, England

D. F. Roberts

Editorial Advisory Panel

Tess Adkins
J. A. Beardmore
W. Brass
Robert Chester
P. R. Cox

K. J. Dennis
Peter Diggory
A. J. Fox
E. Grebenik

G. A. Harrison M. Kirk John Peel D. M. Potts

M. P. M. Richards Sue Teper Barbara Thompson

J. S. Price

Review Editors

E. J. Clegg G. D. Mitchell

Associate Editor

M. A. Herbertson

Consultant
Alan S. Parkes

Notice to Contributors

The Journal of Biosocial Science publishes original papers, reviews, lectures, proceedings and major book reviews dealing with social aspects of human biology, including reproduction and its control, gerontology, ecology, genetics and applied psychology; with biological aspects of the social sciences, including sociology, social anthropology, education and criminology; and with biosocial aspects of demography. Preference will be given to material which is clearly interdisciplinary.

Papers are considered for publication on the understanding that they have not been, and will not be, published elsewhere in whole or in part, and that, where customary, they have been approved for publication by the relevant Head of Department. The Editor is not responsible for any loss of or damage to manuscripts or illustrations and his decision on all editorial matters is final. This journal is covered by *Current Contents* and *Biological Abstracts*.

Manuscripts should be sent in duplicate to the Editor, Journal of Biosocial Science, 22 Newmarket Road, Cambridge CB5 8DT. They should be clearly typewritten, on one side of the paper only, with a 1½ inch margin, and be double-spaced and in the English language. Spelling should follow that of the Concise Oxford Dictionary. The Editor reserves the right to make minor literary emendations in the final editing, but manuscripts will not be altered substantially without consultation with the author or marked unless the paper is thought provisionally to be acceptable. The author is responsible for the accuracy of quotations, tabular matter and references.

Manuscripts should bear the title of the paper, name of the Institution where the work was done, the present postal address of the author if different from that of the Institution, and a short running head of not more than 50 letters. Titles should be brief. A short summary should precede the text. Acknowledgments should be made in a separate section.

Diagrams must be numbered and should bear the author's name, short title of the paper and figure number on the back. Captions should be typed on a separate sheet.

Tables should be typed on separate sheets, be given Arabic numbers and be headed by adequate captions. Their approximate position in the text should be indicated by a note in the margin. They should not exceed in size the equivalent of one page of print. Weights and measurements should be given in metric units. Standard abbreviations should be used $(\mu_g, \text{mg}, g, \text{kg}; \text{ml}, 1; \text{mm}, \text{cm}, \text{m}, \text{km}, ^{\text{C}}, ^{\text{C}}, ^{\text{C}}, ^{\text{C}}, ^{\text{C}}, ^{\text{C}}, ^{\text{C}}$, hr, min). Abbreviations should not be followed by, and initials need not be separated by, full points (e.g. FPA). Mean values should, where possible, be accompanied by standard errors or similar statistical indications of variance.

References in the text should be given in the manner that is standard in the Journal. Titles of journals should be abbreviated according to the *World List of Scientific Periodicals*, 4th edn (1964) and its supplements, and as also given in *World Medical Periodicals*. An unpublished paper should not be cited unless it is already in press.

Debate. A section headed *Debate* is reserved for comments on papers appearing in previous issues. Authors whose papers are involved will be given an opportunity to reply at similar length for simultaneous publication. Discussion of any particular paper will not normally be continued beyond the first comment or comments and the author's reply. The Editor's decision as to publication of comments is final. Comments, not exceeding 500 words (one printed page), should be sent to the Editor.

Proofs will be sent to contributors for minor corrections, and should be returned to the Editor within one week. Special attention should be given to the checking of tables, mathematical formulae and figures. Major alterations to the text will be accepted only at the author's expense. Overseas contributors are advised to arrange for a proof-reader in Great Britain. The date of receipt given at the end of the paper is that on which the script as published was received or agreed.

Offprints. A copy of the issue of the Journal in which the paper appears will be supplied free to the author, or, where there are two or more, to the author responsible for ordering offprints. Offprints may be purchased by ordering on the form sent out with the proofs.

© Galton Foundation. With the exception of abstracts of no more than 300 words, no part of this publication may be reproduced or stored in a retrieval system in any form or by any means without the permission of both the Galton Foundation and the author.

JOURNAL OF BIOSOCIAL SCIENCE

The Journal of Biosocial Science is published by the Galton Foundation and distributed by the Biochemical Society Book Depot.

Orders, payments and enquiries regarding distribution should be sent to:

Journal of Biosocial Science, PO Box 32, Commerce Way, Colchester CO2 8HP, UK

For 1986 (Volume 18) there will be four issues, published in January, April, July and October.

The subscription rates for 1986 are:

	UK and overseas (surface mail)	USA, Canada and Mexico (by air)	Japan only (by ASP)
Annual subscription	£37.00	\$70.00	£42.00
Per part	£11.00	\$20.00	£13.00

To avoid a break in continuity subscribers are asked to place their orders, either direct or through an agent, by mid-December. Should a Standing Order be required, this should be indicated in the order instructions and an invoice will then be sent automatically in the last quarter of each year.

Limited numbers of earlier issues are available. Volumes 1-10 (1969-78, original price £111.50) are offered to subscribers at the special price of £52.00 (US\$105.00) for the set.

Manuscripts for publication and books for review should be sent to:

The Editor,
Journal of Biosocial Science,
22 Newmarket Road,
Cambridge CB5 8DT,
UK

Second-class postage paid in Rahway, New Jersey, USA.

Postmaster. Send address corrections to: Journal of Biosocial Science, c/o Mercury Airfreight
International Inc., 10B Englehard Avenue, Avenel, NJ 07001, USA (US mailing agent).

JOURNAL OF BIOSOCIAL SCIENCE

Vol. 18, No. 3	Contributors	July 1986
Jose Maria Arruda	Chief, Survey Division, Sociedade Civil BEM-Estar Familia Rio de Janeiro	ar no Brasil, p. 261
J. C. Barrett	Senior Lecturer in Medical Demography, London School and Tropical Medicine	of Hygiene p. 357
Roderic Beaujot	Associate Professor, Department of Sociology, University Ontario, London, Canada	of Western p. 297
Lynda Clarke	Social Survey Office, Office of Population Censuses as London	nd Surveys, p. 253
Deborah L. Covington	Senior Research Analyst, Family Health International Triangle Park, NC, USA	l, Research p. 261
Judith Cowan	Research student, Department of Preventive and Social School of Public Health and Tropical Medicine, University Australia	
Denys de Catanzaro	Associate Professor, Department of Psychology, McMaster Hamilton, Ontario, Canada	r University, p. 337
Nicholas Ford	Research Fellow, Institute of Population Studies, Un Exeter	niversity of p. 371
Sue Gregson	Scientific Officer, British Pregnancy Advisory Service, Soli	huli p. 253
G. Ainsworth Harrison	Professor of Biological Anthropology, University of Oxford	d p. 372
Barbara Janowitz	Associate Director for Program Evaluation, Family H national, Research Triangle Park, NC, USA	lealth Inter- p. 261
Thomas T. Kane	Research Associate, Family Health International, Resear Park, NC, USA	rch Triangle p. 261
Charles Kerr	Professor of Preventive and Social Medicine, School of Prand Tropical Medicine, University of Sydney, Australia	ublic Health p. 285
Milo Keynes	Department of Anatomy, University of Cambridge	p. 373
M. A. Khalifa	Lecturer, Department of Statistics, Cairo University, Branch, Sudan	Khartoum p. 325
O-K. Kim	Research student, Centre for Population Studies, London Hygiene and Tropical Medicine	n School of p. 347
James McCarthy	Associate Professor, Department of Population Dynam Hopkins University, Baltimore, USA	mics, Johns p. 311
Leo Morris	Chief, Program Evaluation Branch, Division of Reproduc Center for Health Promotion and Education, Atlanta, USA	
G. A. Oni	Lecturer in Biostatistics and Demography, University Nigeria	of Ilorin, p. 273
Dudley L. Poston	Professor of Sociology and Director, Population Resea University of Texas, Austin, USA	rch Centre, p. 305
J. S. Price	Consultant Psychiatrist, Milton Keynes Hospital	p. 374
K. Vaninadha Rao	Research student, Department of Sociology, University Ontario, London, Canada	of Western p. 297
Martin S. Smith	Assistant Professor, Department of Psychology, Brock St Catherines, Canada	University, p. 337
Michele K. Surbey	Doctoral Fellow, Department of Psychology, McMaster Hamilton, Ontario, Canada	University, p. 337
Howard Wineberg	Project Manager, Center for Population Research and Portland State University, Oregon, USA	d Censuses, p. 311
Mei-Yu Yu	Research student, Population Research Center and De	partment of