

africa development

A Quarterly Journal
Revue Trimestrielle

Vol. II N° 2 1977



D. E. S. R. I. A.

Editorial Board – Comité de Rédaction

Editor — Rédacteur en Chef

Abdalla S. Bujra

Assistant Editors — Rédacteurs en Chef adjoints

Lewis Moutou, Luabeya Kabeya

Editorial Advisor — Conseiller à la Rédaction

Winfried Veit

Advisory Editorial Board — Comité Consultatif de la Rédaction

Samir Amin

Kwesi Botchwey

Walter Rodney

K. Lumpungu

K. Gurulli

A. Benachenhou

Duri Mohammed

N. Shamuyarira

Book Review Editor — Responsable de la Critique des Livres

A. Mohiddin

*Regional and Overseas Correspondents — Correspondants Régionaux
et d'Outre-Mer*

Mahmood Mamdani

East Africa

S. Osobo

West Africa

M. Bongoy

Central Africa

M. Balintulo

South Africa

A. Benachenhou

North Africa

Norman Girvan

Caribbean and Latin America

Nirmal Chandra

India

Robert S. Browne

North America

Hamza Alawi

Europe

Ngo Manh Lan

Sout-East Asia

J. Hilaal

Middle East

CODESRIA greatly acknowledge the support of the Friedrich-Ebert Foundation in publishing this journal.

Le CODESRIA tient à exprimer sa gratitude à la Fondation Friedrich-Ebert pour la généreuse contribution qu'elle a bien voulu apporter à la publication de cette revue.

Africa Development

**A Quarterly Journal of the Council
for the Development of Economic and
Social Research in Africa**

**Revue Trimestrielle du Conseil pour
le Développement de la Recherche
Economique et Sociale en Afrique**

**TECHNOLOGY AND DEVELOPMENT IN AFRICA
TECHNOLOGIE ET DEVELOPPEMENT EN AFRIQUE**

Guest Editors : Cadman Atta Mills, Norman Girvan

Vol. II N° 2

April - June 1977

Avril - Juin 1977

EDITED BY

A. S. BUJRA

Guide to Contributors

Contributions are invited from all over the world, and especially from African (and non-African) scholars working in African universities and research institutes. Articles are accepted in both English and French, but should, if possible, include a brief summary in the other language. The average length suggested for an article is about 25 - 30 pages, typed in double spacing, preferably on quarto-size sheets, and on one side of the paper only. Any footnotes should be numbered consecutively and placed at the end of the article. Copyright of accepted articles will be vested with CODESRIA. Each contributor will receive a copy of the journal together with 15 off-prints of his article. Contributors to *Africa Development* express their own opinions, which should not be interpreted as being the official view of CODESRIA or of any institution / organization with which the authors may be connected.

All correspondence and contributions should be addressed to :

The Editor, *Africa Development*, CODESRIA, B.P. 3304, DAKAR, Sénégal.

Avis à nos collaborateurs

La Revue AFRICA DEVELOPMENT est prête à accueillir des articles venant du monde entier et notamment des articles de chercheurs africains (et non-africains) d'universités et instituts de recherche en Afrique. Ces articles peuvent être rédigés soit en anglais soit en français et devront être accompagnés autant que possible d'un résumé dans l'autre langue. Ils devront compter en moyenne 25 à 30 pages, in quarto de préférence, dactylographiées en double interligne. Les notes accompagnant les articles seront numérotées par ordre consécutif et réunies à la fin. Les droits d'auteurs sur les articles acceptés sont cédés à CODESRIA. Chaque auteur recevra un exemplaire de la revue ainsi que 15 tirés-à-part de son article. Les opinions exprimées n'engagent que leurs auteurs et ne reflètent pas nécessairement celles du CODESRIA ou de toute autre institution ou organisation à laquelle les auteurs pourraient être rattachés.

Toute correspondance et tous articles devront être adressés à :

M. le Rédacteur en chef, *Africa Development*, CODESRIA, B.P. 3304, DAKAR, Sénégal.

Contents – Sommaire

GUEST EDITORS NOTES

Norman Girvan

- Technology : A new white Magic for Africa ? 5
La Technologie, nouvelle Magie Blanche pour l'Afrique ? 8

Cadman Atta Mills

- Transnational Corporations, Transfer of Technology and Prospects for a
« fair-deal » for Third World 11
Les Sociétés Transnationales, Transfert de Technologie et Perspectives
« d'arrangement équitable » pour le Tiers Monde 18

ARTICLES

UNCTAD Secretariat

- Technological Dependence : Its Nature, Consequences and Policy
Implications 27
Résumé 44

P. Masette Kuuya

- Transfer of Technology : An Overview of the Tanzania Case 47
Résumé 70

Ilunga Ilunkamba

- Conventions de Gestion et Transfert de Technologie au Zaïre.
Le cas du cuivre 73
Summary 92

Steven Langdon

- Technology Transfer by Multinational Corporations in Africa :
Effects on the Economy 95
Résumé 112

Shérif Mahmoud El-Hakim

- The Role of the Family, Kinship and Rural/Urban Migration in the Processing
of Solid Waste in Cairo 115
Résumé 123

DOCUMENT

- The Kuwait Declaration on Technical Cooperation amongst Developing
Countries 125
Déclaration de Koweït sur la Coopération Technique parmi les Nations
en Développement 129

BOOK REVIEWS - REVUE DES LIVRES

Mark Delancey

- Aid and Self-Help : A General Guide to Overseas Help
by Elizabeth O'Kelly 135

Michel Darnaud

- Islam, Sociétés Africaines et Culture Industrielle,
par Mamadou Dia 139

FOCUS ON RESEARCH AND TRAINING INSTITUTES

- African Training and Research Centre in Administration for Development,
Tanger, Morocco 147
Centre for Social, Cultural and Environmental Studies, University of Benin,
Nigeria 151

A new publication

from The University of Chicago Press—Journals Division

Essays on Economic Development and Cultural Change in Honor of Bert F. Hoselitz

Manning Nash, editor

The essays collected in this volume celebrate two occasions, the sixty-fourth birthday of Professor Hoselitz, and the twenty-fifth anniversary of **Economic Development and Cultural Change**, a journal with which he has been associated since its founding. "That such an internationally distinguished group of scholars have joined in the effort to honor Professor Hoselitz is a tribute to his importance in the field of economic development and cultural change."—Manning Nash

The contributors

Irma Adelman
Cynthia Taft Morris
Thomas (Lord) Balogh
Martin Bronfenbrenner
Henry J. Bruton
Martin Carnoy
Kingsley Davis
S. N. Eisenstadt
David Felix
Norton Ginsburg
Benjamin Higgins
Albert O. Hirschman
Harry G. Johnson
Nathan Keyfitz

Simon Kuznets
Harvey Leibenstein
David C. McClelland
Gerald M. Meier
Wilbert E. Moore
Samuel A. Morley
Jeffrey G. Williamson
Manning Nash
Gustav F. Papanek
Gustav Ranis
Theodore W. Schultz
H. W. Singer
Adolf Sturmthal

Plus a Selected Bibliography of Bert F. Hoselitz

The journal

Economic Development and Cultural Change explores the mechanisms and implications of development in countries throughout the world. Subscribers to the quarterly may purchase the *Essays* at a 25% discount.

Order Form

Economic Development and Cultural Change

Essays on Economic Development and Cultural Change (supplement to vol. 25, January 1977):

Regular price \$12.00 EDCC subscriber price \$9.00

One year subscriptions to EDCC: Institutions \$20.00 Individuals \$15.00,

Students with faculty signature \$12.00 (In countries other than USA add \$1.50 for postage)

Rates effective only until July 1977

Name _____

Address _____

City _____ State/Country _____ Zip _____

Mail with your check or purchase order to The University of Chicago Press, 11030 Langley Avenue,
Chicago, Illinois 60628

AD 1/7

JOURNAL OF SOUTHERN AFRICAN AFFAIRS

An Interdisciplinary Research Quarterly

The **JOURNAL OF SOUTHERN AFRICAN AFFAIRS** is an interdisciplinary quarterly of research and writing on economics, politics, international affairs, history, law, sociology, anthropology, geography, technology and the cultures of Southern Africa. The **JOURNAL's** objective is to present an African-centric approach to the study of Southern Africa. The geographic areas covered are: South Africa, Namibia, Swaziland, Lesotho, Botswana, Angola, Zambia, Zimbabwe, Malawi and Mozambique including the border states of Tanzania and Zaire. The **JOURNAL OF SOUTHERN AFRICAN AFFAIRS** encourages and supports research on inter-African affairs as well as the relationship of international systems to Southern Africa.

All manuscripts should be submitted in triplicate and may be in English or Portuguese. Manuscripts in Portuguese will be translated into English before publication. They should conform to the style of the University of Chicago Press, be typed double-spaced and may be mimeographed or hectographed. Footnotes should appear at the end of the manuscript. Manuscripts will be submitted without the name of the author to regional editorial boards. Please include a removable cover page giving title, authorship, affiliation and address.

EDITOR

Mariyawanda Nzuwah

ASSOCIATE EDITORS

Clement Tsehloane Keto and Madziwanyika Tsomondo

SUBSCRIPTION RATES:

Individuals	\$12
Libraries/Institutions	\$16
Single Issues	\$ 4

Mail manuscripts and subscriptions to:

Rosetta S. Thompson
Managing Editor
Journal of Southern African Affairs
4133 Art/Sociology Building
University of Maryland
College Park, Maryland 20742 U.S.A.



Still Available
the July-September issue
of
AFRICA TODAY
(Vol 23 No 3)



"SOUTHERN AFRICA AND U.S. FOREIGN POLICY"

Contents

- George W. Shepherd, Jr.**
"From Counter-Revolution to Majority Rule: Can U.S. Policy Change?"
- Ronald W. Walters**
"Apartheid and the Atom: The United States and South Africa's Military Potential"
- Neil O. Leighton**
"A Perspective on Fundamental Change in Southern Africa: Lusaka and Beyond"
- William Minter**
"U.S. Policy in Angola and Mozambique"
- Robert C. Good**
Rhodesia: More of the Same with a Difference
- William Johnston**
"Namibia: A Sacred Trust of Civilization."
- Akbarali H. Thobhani**
"The Mercenary Menace"

PLUS: Book Reviews. Publications. Books Received.

\$2.50 per single copy. Bulk rates: 3-9 copies \$1.60 each; 10-19 copies \$1.45 each; 20 or more \$1.30 each.

Other recent related issues

- "South Africa and the World," 23:1, Jan.-March 1976
"Mozambique: Free at Last," 22:3, July-September 1975
"Political and Military Councils," 22:1, January-March 1975
"Portugal and Africa: A New Day Dawns," 21:4, October-December 1974
"Tensions in the White Redoubt," 21:2, April-June 1974/1974
"Portugal and Africa: The Struggle Continues," 21:1, Jan.-Mar. 1974
"U.S. Policy Toward Africa," 20:1, Winter 1973

Any combination of these issues is available at bulk rates listed above.
Special offer 1 each of all 8 for \$10.00

Subscription Rates: Please indicate if you desire to start with this issue

		Individuals	Institutions
North and	1 yr	\$8.00	\$12.00
South America	2 yrs	15.00	22.00
	3 yrs	21.00	30.00
	1 yr Student	6.00	---

Overseas: Add \$2.00 per year for surface mail; \$5.50 for airmail.

AFRICA TODAY

GSIS University of Denver

Denver, Colorado 80210