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**ECONOMIC COMMISSION FOR AFRICA**

**ECA-MRAG**  
**March 1993**

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**MEETING THE CHALLENGE OF AFRICAN  
DEVELOPMENT IN THE 1990s**

**ECA-MULTIDISCIPLINARY REGIONAL ADVISORY  
GROUP (ECA-MRAG)**

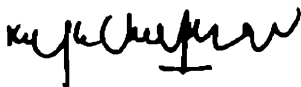
## FOREWORD

It is indeed a pleasure for me to introduce to the generality of the member States of the United Nations Economic Commission for Africa and their Intergovernmental Organizations, through this brochure, the UNECA Multidisciplinary Regional Advisory Group (ECA-MRAG), whose establishment has come at a time when Africa is facing new, and indeed, daunting challenges to its socio-economic development. The continent's unfolding socio-economic development problems are assuming increasingly complex dimensions, which are being further compounded by rapid changes on the international scene. The net effects of these dramatic changes on Africa's development prospects are, for the most part, negative. These realities dictate that strategies of socio-economic transformation and sustainable development become more innovative and imaginative, to respond realistically and effectively to the quest for lasting solutions to problems in this domain.

It is for this reason that the United Nations Economic Commission for Africa, in orienting its activities towards the new imperatives, has created the Multidisciplinary Regional Advisory Group. The main objective in establishing this Group is to ensure that Africa's socio-economic development challenges are confronted from a multidisciplinary perspective.

Given its present composition of 10 Senior Regional Advisers drawn from a wide spectrum of professional expertise and wealth of experience, supported also by the skills available in the substantive UNECA Divisions, the Group is in a position to render invaluable services to African countries and intergovernmental organizations in the areas of debt and public financial management, food and agriculture development, economic co-operation and integration, social concerns and human resources, structural adjustment programmes, statistics and national accounts, environment and development, energy, macro-economic issues and public sector administration and management.

This Group is being placed at the disposal of ECA member States and their institutions, and can be called upon at any time to render assistance, at no cost to the requesting party, in the search for long-lasting, flexible and coherent solutions to their problems of development. I urge all African governments and their intergovernmental organizations to fully exploit the services of MRAG to strengthen their efforts at socio-economic transformation and development.



Layashi Yaker  
Under-Secretary-General of the United Nations  
Executive Secretary of the Economic Commission for Africa

## **I. TOWARDS A MULTIDISCIPLINARY APPROACH TO ADVISORY SERVICE**

### **WHAT IS ECA-MRAG?**

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The Economic Commission for Africa (ECA) Multidisciplinary Regional Advisory Group (MRAG) is a task force of ECA advisers under the direct supervision and overall leadership of the ECA Executive Secretary

The Group is composed of senior experts, and is charged with strengthening the links between ECA's research and analysis, and their effect on Africa's development

One of its major goals is to develop flexible and coherent solutions to problems that affect the entire African region, particularly those caused by external debt, structural adjustment, trade in commodities, energy crises, and environmental degradation. Such solutions must provide policy-makers with comprehensive responses, incorporating all the technical, economic and managerial aspects of the problem

The wide spectrum of professional expertise and wealth of experience available in the Group facilitates this process, while also allowing the policy maker to take into account the interdependence that exists among national, subregional and regional programmes and strategies

### **WHY ECA-MRAG?**

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ECA has a tradition of assisting African countries to tackle their socio-economic and technological problems by providing short-term advisory services when member States request them. ECA-MRAG recognizes the fact that most of these problems need sustainable solutions, that they are often complex in nature, and have multidimensional implications, and that, given the limited size and resources of many of Africa's countries, the co-operation of national sectors, neighbouring countries and groupings is often a necessity

Trading blocs are emerging throughout the world, and Africa must create a viable Economic Community based on regional and subregional integration if it is to survive

The structural characteristics present in the patterns of production, consumption, and exchange of the African economies constitute the most fundamental causes of their underdevelopment. To survive, African economies must be transformed. Towards this end, the region must promote a self-reliant, self-sustaining path of structural adjustment, based on first-hand knowledge and understanding of African societies, economies, and trade, and their interactions.

"Getting Africa moving" requires co-ordination. Linkages need to be created between the various productive sectors to ensure that they contribute to development and lead to social and economic transformation. For example, food policies have to match with environmental and energy policies, trade has to match with resource supply and demand. Government organizations, and the people who run them, have to develop the policies and skills necessary to cover these diverse subjects in a coherent manner. All have to ensure that African populations not only survive, but prosper socially and economically.

#### **WHAT ARE ECA-MRAG'S AREAS OF EXPERTISE?**

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In responding to requests, the composition of MRAG advisory team varies depending on the problem being tackled. Experts are drawn from the areas of macro-economics, food and agriculture, development finance and debt management, public administration, statistics, and the application of national accounts to development, environment and development, energy development, human resources development and training, social and human resource aspects of structural adjustment and transformation, and regional economic co-operation and integration.

ECA-MRAG also draws on the skills available in the substantive ECA Divisions and MULPOCs. These include nearly three hundred sectoral experts with extensive knowledge of Africa and its problems. These experts are organized into more than a dozen major programmes, thus making ECA the foremost multidisciplinary United Nations institution in the region.

## **HOW DOES ECA MRAG WORK?**

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The Multidisciplinary Advisory Group provides consulting and advisory services exclusively to member States and their intergovernmental organizations. Such service is made available at no cost and can be requested at any time, depending on the work programme of the Group. The Group

- 1) Assists countries to translate regionally agreed policies into practical strategies and programmes,
- 2) Provides multisectoral analyses of African needs in the priority areas, and time-bound strategies for achieving the objectives contained in those priorities,
- 3) Develops, with member States and subregional economic communities, annual programmes of multidisciplinary technical assistance,
- 4) Provides multidisciplinary technical assistance teams to African countries based on those programmes

The Group provides the requesting State or organization with a tentative assessment of the problem, a suggested work plan and framework for solving it, and the composition of the advisory team which would have to be involved. Because of the practical approach of the Group, advice is given within a specific time frame, with an agreed objective to be achieved by the end of that time. Where appropriate, the Group provides suggestions regarding future possible programmes of action, investment scenarios, etc.

## **II. WHAT ARE THE PRIORITY AREAS OF ECA-MRAG?**

ECA-Multidisciplinary advisory services are available to member States and their intergovernmental organizations and institutions on areas of priority concern to the needs of the African region. In providing an advisory service on any of the priority areas of the continent, the Group adopts a multidisciplinary approach which enables it to recognize a problem or cluster of problems in their widest ramifications, apply a technique or methodology to reveal the inter-dependence of the strategic variables, and construct a model aimed at resolving perceived conflicts as well as providing long-lasting, flexible and coherent solutions to the problem. It is within this multidisciplinary perspective that request on any of the priority areas detailed below would be approached by the Group.

### **ECONOMIC CO-OPERATION AND INTEGRATION**

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Advisory services will be provided to member States and their intergovernmental economic communities and institutions on the substantive and institutional questions of economic co-operation and integration such as

- (i) formulation and implementation of economic integration programmes and projects having regard especially to subregional priority sectors
- (ii) institutional, and technical and operational aspects of economic co-operation and integration, including the preparation and instrumentation of treaties, protocols, agreements, regulations and other legal documents,
- (iii) preparation of policy papers which will provide multisectoral analyses of Africa's needs and priorities in economic co-operation and integration including time-bound strategies for achieving the objectives of those priorities,
- (iv) determination of requirements for the establishment of the African Economic Community,

- (v) provision of substantive support to meetings, workshops and seminars on economic co-operation and integration designed to ensure better and more effective programme design, implementation and monitoring, as well as to reinforce the exchange of experiences among experts at the national, subregional and regional levels

## **AGRICULTURE AND RURAL DEVELOPMENT**

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Advisory services will be provided on the following

- (i) the formulation and implementation of appropriate and coherent agricultural development policies, plans and programmes,
- (ii) development of measures to combat food emergencies and unexpected food and agricultural development problems,
- (iii) development of longer-term measures to attain sustainable levels of agricultural development through increasing levels of productivity and production and the transformation of the undesirable structural characteristics identifiable with the existing pattern of food and agricultural production, consumption, and exchange in member countries,
- (iv) development of measures for the promotion and development of subregional co-operation in policy and planning aimed at harmonizing regional and subregional development efforts in the area of rural development in general and food and agricultural development in particular,
- (v) organization, preparation, and servicing of training workshops to improve the planning and administration of food and agricultural development with particular emphasis on the implementation of the policy objectives of the Lagos Plan of Action, AAF-SAP, UN New Agenda for the Development of Africa in the 1990s covering food production, food security, agricultural services, agricultural research and extension services



## **PUBLIC ADMINISTRATION AND MANAGEMENT**

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Advisory services will focus attention on the following

- (i) improvement of the performance of the public service and enterprises,
- (ii) strengthening the capabilities of national and subregional training and research institutions dealing with improvement in public administration and management,
- (iii) designing programmes and projects to support efforts of member States and intergovernmental organizations in the areas of institutional reform and structural transformation,
- (iv) provision of technical assistance and support to national, subregional or regional seminars/training workshops for national governments institutions, para- statal, intergovernmental organizations and non-governmental organizations, focusing on the theme of institutional and managerial capacity building under structural adjustment and transformation

## **ENVIRONMENT AND DEVELOPMENT**

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Advisory services will be provided on the issues detailed below

- (i) integration of environmental dimensions in the socio-economic planning and development process,
- (ii) sustainable management of Africa's land resources (soils, forests, water),
- (iii) fostering subregional and regional economic co-operation and integration particularly in the fields of environmental legislation as well as development and utilization of shared natural resources,

- (iv)** strengthening of environmental capabilities through education and training, workshops particularly in the analysis and deployment of new economic tools such as the environmental impact assessment;
- (v)** promotion of research in science and technology with emphasis on the development of indigenous technologies as well as the adoption of appropriate foreign technologies

## **ENERGY AND DEVELOPMENT**

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Advisory services will focus on the following

- (i)** integrated energy policy, planning and development;
- (ii)** development of position papers on energy issues and options in Africa,
- (iii)** research studies on integrated energy policy, planning and development, which provide holistic analyses of the energy inputs and efficient uses required for priority areas of the UN New Agenda for Development of Africa in the 1990s, and of the Lagos Plan of Action, as well as time-bound strategies for the emplacement of the supplies and efficient uses of these energy inputs,
- (iv)** planning and servicing of training courses and workshops on energy and related topics and issues relevant to African needs

## **STATISTICAL DEVELOPMENT**

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Advisory services will be provided on the following issues

- (i) development of data analysis and applications in the African region as well as data quality and linkages,
- (ii) building of institutional and technical capabilities of African countries for developing basic statistical series necessary for compiling national accounts tailored to specific policy requirements,
- (iii) development of the ECA statistical data base, in particular macro-economic data series, for purposes of monitoring socio-economic recovery and regional and subregional economic co-operation and promotion of the application of quantitative information for decision-making for sustainable development in African countries,
- (iv) substantive preparations of seminars, working groups and training courses in national accounts and related statistics

## **POLICIES AND INSTRUMENTS FOR STRUCTURAL ADJUSTMENT AND TRANSFORMATION IN AFRICA (MACRO ECONOMIST)**

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Advisory services will concentrate on the following

- (i) undertaking in-depth research on specific macro and sectoral policies with a view to identifying the gaps and weaknesses in current development strategies and indicating new policy directions for the future. This will necessitate carrying out evaluations of the socio-economic impact of country policy-packages and programmes on different social groups and the overall socio-economic transformation of the national economy
- (ii) assisting the member States in effectively preparing, implementing and monitoring of policy programmes which can lead to realisation of the objectives of structural adjustment, socio-economic transformation and sustained development in Africa

- (iii) developing specific macro and sectoral models which can be applied by national experts in the analysis of different policy instruments, their sequencing and mixes with a view to putting together national "Country Framework Papers"
- (iv) providing national experts with relevant technical and strategic information and approaches to effective negotiation of adjustment programmes with various international agencies and other bilateral donors
- (v) providing substantive support to national and subregional training workshops at different levels of policy-makers, experts and the people with a view to ensuring better and more effective programme design, implementation and monitoring as well as reinforcing the exchange of experiences among different levels of society and among different countries

#### **SOCIAL CONCERNS AND HUMAN RESOURCES DEVELOPMENT**

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Advisory services will focus special attention on the following

- (i) the use of social and human development indicators in socio-economic development planning in African countries,
- (ii) ways of incorporating the social and human dimensions into economic reform and development programmes as well as dissemination of techniques of social and human development planning,
- (iii) measures to increase the relevance and efficiency of social and human resources planning and research institutions
- (iv) identification of factors and policies that influence trends in social and human development in African countries with a view to proposing to African Governments appropriate action programmes in the area of education, training, employment creation etc
- (v) substantive support to national, subregional and regional seminars/training workshops for policy-makers, planners and other high level officials in any aspect of social and human development

## **DEVELOPMENT FINANCE AND DEBT**

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Advisory services will focus on the following issues

- (i)** effective preparation, implementation and monitoring of policy programmes for adjustment with transformation, especially their monetary, fiscal, resources and trade aspects,
- (ii)** formulation of genuinely national "Frame-work Papers "for adjustment with transformation, especially the mobilization and allocation, and intra-African trade expansion,
- (iii)** provision of technical and strategic information and approaches to effective negotiations with international agencies and other donors in respect of debt and resource flows, trade, budgetary, fiscal and monetary policies,
- (iv)** substantive support to training programmes of national experts that are necessary for the effective internationalization of the processes of designing, negotiating, implementing, evaluating and monitoring of programmes of adjustment and transformation, especially with respect to the financing and trade aspects
- (v)** organization of national and subregional workshops at different levels of policy-makers, experts and the people to ensure better and more effective programme design, implementation and monitoring as well as to reinforce the exchange of experiences among different levels of society and among different countries

### III. THE WAY FORWARD

ECA-MRAG is a full-pledged problem-solving mechanism established to provide technical assistance in the process of implementing the major policy objectives of ECA. It has, in its short period of existence, shown that multi-disciplinary technical assistance offers promising opportunities for focusing ECA's overall research and analytical capacity on Africa's development efforts. It is an original, though limited, response to the challenges of African development. Given the fact that Africa is the last frontier for world development, ECA-MRAG has the opportunity to participate, among other things, in the institutional, structural, and environmental challenges and opportunities in support of successful African endeavour.

What needs stressing is that ECA-MRAG has been established for the exclusive use of member States and their intergovernmental organizations who individually and collectively can call for the service of the Group to advise on development problems on a short-term basis free of charge. Accordingly, Government and organisations are urged to make full use of this latest initiative of ECA in its service to Africa. In many respects, ECA-MRAG constitutes one of the essential keys to their effort towards Africa's recovery, development and transformation. It is desirable that we learn how to use this key effectively without delay.

#### **IV. HOW TO OBTAIN THE SERVICES OF ECA-MRAG?**

The annual programme of ECA-MRAG is developed after initial consultations with member States, intergovernmental organizations, and other United Nations agencies at annual meetings of the Multinational Programming and Operational Centres (MULPOCs), which are located in the five subregions of Africa. These normally take place in the first quarter of the year.

Ad hoc requests can be made at any time through The Executive Secretary, Economic Commission for Africa or The Coordinator, ECA-MRAG, P O Box 3001, Addis Ababa, Ethiopia or through the Director of the ECA MULPOC operating in your subregion. The addresses of the Mulpocs are as follows:

- West African MULPOC, P O Box 744, Niamey, Niger Tel 72-28-94, Telex 5407 ni
- Central African MULPOC, P O Box 836, Yaounde, Cameroon, Tel 23-14-61, Telex 8441 kn
- Great Lakes countries MULPOC, P O Box 70, Gisenyi, Rwanda Tel 40-427, -428, 429, Telex 601/602 rw
- North Africa MULPOC, P O Box 316, Tangier, Morocco Tel 36233, -34, -35, Telex 33002
- Eastern and Southern Africa MULPOC, P O Box 30647, Lusaka, Zambia Tel 21-59-48, Telex 44410

## V. WHO ARE THE CURRENT MEMBERS OF ECA-MRAG?

### **George I. Abalu**

*Food and Agricultural Policy and Planning*

**Qualifications:** B Sc (Econs), Wisconsin (1969), M Sc (Agric Econs) (1970) and Ph D (Agric Econs), Iowa State University (1973)

**Experience** Professor of Agricultural Economics since 1979, Head of Department of Agricultural Economics at Ahmadu Bello University, Zaria, 1976-1987, International Coordinator of the West African Farming Systems Research network 1983-1986, President, Nigerian Association of Agricultural Economists, 1986-1988, and with over 18 years experience in international consultancy for the OAU, FAO, World Bank etc, scientific research, university teaching and administration and institution building. Extensive experience in providing advisory services on agricultural policy and planning to African governments and IGOs

**Areas of Expertise:** Agricultural Policy and Planning, Agricultural and Rural Development, Farm Management and Agri-Business Administration and Management

**Publications:** Over 50 publications in the form of books, book chapters, journal articles, monographs and technical papers on development policy and planning, development of improved farming systems, design and evaluation of improved agricultural technologies for small-scale farmers, food security and the application of Structural Adjustment Programmes in African Agriculture. Major works include "Socio economic Analysis of Existing Farming Systems in Northern Nigeria", in G Rlyan (ed), Socio-Economic Constraints to Development of Semi-Arid Tropical Agriculture (1979), "Understanding the African-Farmer", in C K Brown et al (eds) Rural Sociology. A Book of Readings, (1982), "Solving Africa's Food Problems", Food Policy Journal vol 7, 1982, "Design and Evaluation of New Agricultural Technologies" in P Matlon (ed) Coming Full Circle (1984), "The Green Revolution in Nigeria?" Zaria, Nigeria, Ahmadu Bello University Press, (1976)

**Working Languages:** English, French



## **Samuel K.B. Asante**

*Cooperation and Integration and MRAG Coordinator*

**Qualifications:** B.A (Hons), (Modern History) University of Ghana, Legon (1959), M Sc (Economics) (1967) and Ph D, London School of Economics (1972) Post-graduate training in auditing, personnel administration and management, Universities of Manchester and Southampton (1967)

**Experience:** Government auditor (1959-1962), University Administrator (1962-1970), University professor and African Area Studies Consultant since 1982, Coordinator of U.S. Inter-Future Programme in Ghana (1974-1976), and the Texas Southern University Peace Corps Volunteer Programme in Ghana (1977-1979), Head of Development Studies Department and subsequently Officer-in-Charge of the United Nations Institute for Namibia (1986-1991), Director, Ghana Diamond Marketing Corporation (1969-1972), leader of a 4 man-expert team of the UN General Assembly special joint UNDP/ECA/UN evaluation mission on ECA-MULPOCs (March-November 1989), with over 30 years experience in teaching and research, administration and management, consultancy and advisory services and coordination of development programmes

**Areas of Expertise** African development issues, international trade and development, regional cooperation and integration with particular reference to technical advisory services to intergovernmental economic groupings and institutions on the substantive and institutional questions of economic cooperation and integration, African Economic Community and ECA MULPOCs

**Publications.** Authored over 60 publications including books, book chapters, monographs, consultancy reports, journal articles on African development, regional cooperation and integration, pan-Africanism and political economy of African development etc. Major works include African Development: Adebayo Adedeji's Alternative Strategies (London: Hans Zell, 1991), The Political Economy of Regionalism in Africa: A Decade of the Economic Community of West African States (ECOWAS) [New York: Praeger, 1986], "Development and Regional Integration Since 1980", in A. Adedeji & T.M. Shaw (eds), Economic Crisis in Africa: African Perspectives on Development Problems and Potentials [Boulder, Colo: Lynn Rienner (1985)], "Towards a Continental African Economic Community by the year 2000?" in C. Fyfe (ed) Future of African Development [Edinburgh University, 1989]

**Working Language:** English

## **M.J. Balogun**

### *Policy, Management and Institutional Reform*

**Qualifications:** B.A. (Hons) (Admin), Ahmadu Bello University, Zaria, Nigeria (1967), M.A. (Econ), University of Manchester (1968), Ph D, University of Leeds (1973)

**Experience:** A University professor of Development Administration since 1984, Director-General and Chief Executive, Administrative Staff College of Nigeria (1985-1987), Secretary-General of the Nigerian Association for Public Administration and Management (1981-1983), and Senate Member, United Nations Institute for Namibia (1988-1990), with over 20 years experience in university administration teaching as well as research in public sector management. Extensive experience in national and international management development and institutional reform activities. Wide experience in providing advisory services to African Governments and institutions.

**Areas of Expertise:** Policy analysis, programme evaluation and performance measurement, administrative and personnel reform, including reorganization of institutions, manpower auditing, job evaluation and classification, career planning and development, budgeting and financial management, performance improvement, institution capacity building.

**Publications:** More than 40 publications, including books, book chapters and journal articles on public administration, public sector management, development management, economic restructuring and public administration. Major works include Public Administration in Nigeria. A Developmental Approach, London Macmillan, 1983 (Ed) The Ecology of Public Administration and Management in Africa AAPAM, Addis Ababa, 1985, co-editor, Economic Restructuring and African Public Administration, Hartford, Conn Kumarian Press, 1989, and Enhancing Policy Management Capacity in Africa, Kumarian Press, In addition, he has to his credit over 25 technical publications and mission reports.

**Working Language:** English

## **Crispin Grey-Johnson**

### *Social Concerns and Human Resources*

**Qualifications:** BA, McGill (1968), PGCE, Oxon (1971), MA George Washington (1980)

**Experience:** Associate Economic Affairs and subsequently Economic Affairs Officer (1977-1991) with extensive experience in the study and analysis of development problems in Africa, development policy formulation, project preparation and implementation, teaching, training and research, social and human resources development policy formulation and implementation. Wide experience in providing advisory services to African Governments, inter-governmental and non-governmental institutions

**Areas of Expertise:** Human resources and social development policy formulation, manpower and employment planning and institution building for social and human development

**Publications:** Author of dozens of publications, including books, book chapters, articles and technical papers on employment, education, literacy and development, human development, higher education for development, the social situation in Africa, human resources planning, the brain drain, the informal sector etc. Latest contributions include The Employment Crisis in Africa, Issues in Human Resources Development Policy, AAPAM, 1990, "An Enabling Environment to Retain Africa's High Level Manpower" in A. Adedaji et al (eds) The Human Dimension of Africa's Persistent Economic Crisis, London: Hans Zell, 1991, "Human Resources in Africa" in L. Nadler (ed) The Handbook of Human Resources Development John Wiley, 1984

**Working Language:** English, French

**Simeon Kedogo Imbamba**  
*Environment and Development*

**Qualifications:** B.A. (1964), MSc (1965), Southern Illinois University, Carbondale, Ph D (1969), University of Minnesota

**Experience:** Professor of Botany for over 15 years, Head of Dept of Botany (1974-1986), University of Nairobi, consultant to a number of United Nations specialized agencies on environmental issues and chairman of the Lake Basin Development Authority, with wide experience in research and teaching, administration and management and extensive experience in providing advisory services to African Governments, IGOs, River Basin Authorities, etc

**Areas of Expertise:** Environment and development, sustainable development, conservation of eco-systems, environmental education and training, climatic change

**Publications:** Authored more than 60 publications, including books, book chapters, journal articles monographs and technical reports on climatology, eco-systems, ecological photosynthesis, bioproductivity including biomass production in semi-arid rangelands, drought and salt tolerance, desertification, environmental management and socio-economic development etc Major works include Photosynthesis in relation to Plant Production in Terrestrial Environments (with Beadle, Long, Hall and Olembo), Oxford Tycooly Publishing Ltd, 1985, Biological Sciences for Schools Vol 1 (with Okelo Ochieng & D W Khatete), Nairobi Heinemann Kenya Ltd, 1987, Biological Sciences for Schools. A Practical Manual (with Okelo Ochieng & D W Khatete), Nairobi Heineman Kenya Ltd, 1988, "Savana at Nairobi National Park" (with JI Kinyamario) in SP Long et al (eds), Primary Productivity of Grass Ecosystems of the Tropics and Sub-Tropics, Chapman & Hall, 1992.

**Working Language:** English

## **Wilfred A. Ndongko**

### *Policies and Instruments for Structural Adjustment and Transformation*

**Qualifications:** B.A (Econ), Brandeis University (1966), M.A (Econ) University of Alberta (1967), Ph.D (Econ) Carleton University (1973)

**Experience:** Professor of Economics since 1980, Associate Professor of Economics, University of Yaounde, Cameroon (1974-1977), Director of Studies, Institute of Business Administration, Yaounde (1975-1977), Head of Department of Economics, University of Calabar, Nigeria (1979-1981), Director of Institute of Human Sciences of Cameroon (1983-1988), President of Central African Economic Association, Secretary General of African Economic Association and member of the Executive Committee of the Council for the Development of Economic and Social Research in Africa - CODESRIA (1988-1991), with over eighteen years experience in University teaching, research, administration and in government institution building, extensive international consultancy experience in various aspects of socio-economic development of Africa

**Areas of Expertise:** Economic planning and development, regional economic integration and development, international trade and development, and macro-economic and financial policy

**Publications.** Over fifty publications, including books, book chapters, monographs, occasional papers and articles on economic development, economic management, regional economic integration, economic planning, stabilization and structural adjustment programmes, economic and financial policy instruments for development etc. Major works include Planning for Economic Development in Federal States. The Case of Cameroon, 1960-1971, Munich Weltforum Verlag, 1975, Economic Cooperation and Integration in Africa, Dakar CODESRIA Book Series, 1985, Economic Development of Cameroon, Stockholm Bethany Books, 1989, Critical Essays on Africa and Third World Economic Development, Stockholm Bethany Books, 1988, The Policy Instruments of the Structural Adjustment Programme of Cameroon, Addis Ababa, January 1990, The Socio-Economic Consequences of the Structural Adjustment Programme in Cameroon, IDEP, Dakar, June 1990

**Working Languages:** English, French

**Hailu Lul Tebicke**  
*Energy and Development*

**Qualifications:** B Sc (Electrical Engineering), Manchester University (1955); M Sc (Electrical Machines and Power Systems), Imperial College, University of London (1968) Member Institution of Electrical Engineers, London

**Experience:** Consultant in Energy for Development and in Science and Technology for Development (1985-87), Commissioner, Ethiopian Science and Technology Commission (1975-85), Assistant Professor of Electrical Engineering, Addis Ababa University (1969-75) and Chief of Electricity Production Division of the Ethiopian Electric Light and Power Authority (1958-67) President (1970-73) Ethiopian Association of Engineers and Architects More than 30 years experience in utility operation and project management, consultancy services, university teaching and research, public sector management in science and technology for social and economic development, extensive experience in providing advisory services on energy for development

**Areas of Expertise:** Planning Energy supplies and efficient end-uses for development, optimal matching of energy end-uses to energy resource endowments

**Publications:** Author of over 30 technical reports and studies in energy policy, planning and strategy issues, as well as monographs and reports on national R&D capacity building in African countries and on technology transfer issues in the energy, pharmaceutical and food processing sectors in developing countries. Energy publications include "Bio-energy R&D in Developing Countries," in H Egneus et al eds, BIOENERGY 84, Volume V Bioenergy in Developing Countries, Elsevier Applied Science Publishers, London 1985, "The Transition to Long-run Sustainable Energy Supplies and Utilization in the SADCC Region" in SADCC Energy Quarterly VIII (20), Luanda, 1990, "A Case Study of Small Hydro and Grid Extension for Rural Electrification Alternatives and Complementarities", in Bhagavan et al (eds), African Energy Issues in Planning and Practice, Zed Books, London, 1990, "Major Factors and Constraints in the African Energy Sector under Climate Change" in Energy Systems, Environment and Development: A Reader, United Nations Centre for Science and Technology for Development, New York 1991

**Working Languages:** English, French

## **Ke-Chiang Wang**

### *Statistics*

**Qualifications:** B Sc (Econ) 1951, M Sc (Econ) (1969), London School of Economics, University of London

**Experience:** Over 35 years of experience working on different types of economic statistics in developing countries at the country, regional and global levels, specializing in national accounts and their application to development planning, working variously as Statistical Adviser, Central Statistical Office of Ethiopia (1960-65), part-time lecturer in "national income" and "Statistical Organization" at Addis Ababa University (1962-64), Chief of National Accounts and Financial Statistics Section of U N Economic Commission for Africa (1968-77), Chief of Economic Projections Section of UN DIESA (1978-79), Technical Adviser in Economic statistics, U N Statistical Office (1987-89), Regional Adviser in National Accounts, UNECA (1990-92), etc Extensive experience in providing short term advisory services to governments in developing regions on statistical development and training, in particular, national accounts and related economic statistics

**Areas of Expertise** National income, product and expenditure, general economic statistics, including trade and international payments, industrial production and surveys, household, consumption and price indices, statistical organization and training

**Publications:** Authored over 60 technical papers and studies on various aspects of national accounting, including economic forecasts and projections. Among published articles are "Planning and the Current Availability of National Accounts statistics in Africa", in OECD, National Accounts and Development Planning in Low Income Countries, 1974, "Africa in the World Economy", in The African Development Prospects - A Policy Modelling Approach, D Salvatore (Editor), Taylor & Francis, New York, 1989, and some monographs on perspectives relating to industry, and energy to the year 2000, etc

**Working Languages:** English, French