

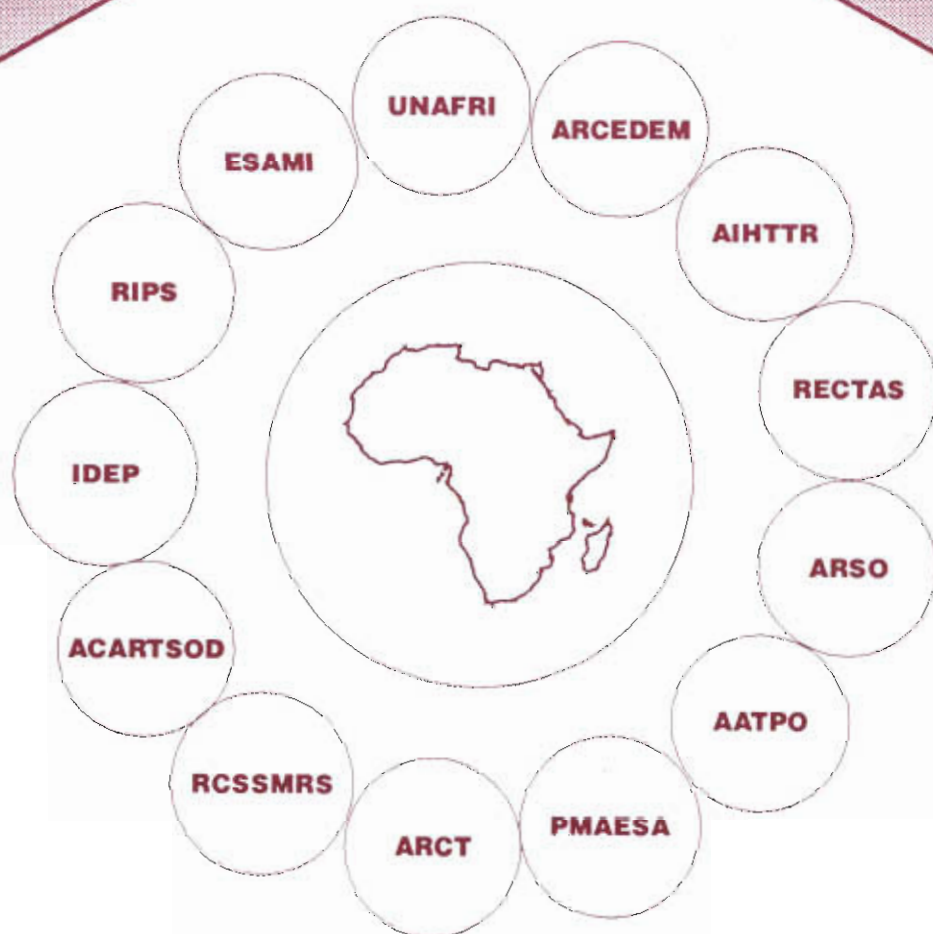
United Nations  
Economic Commission  
for Africa



Nations Unies  
Commission économique  
pour l'Afrique

# CAPACITIES AND CAPABILITIES OF ECA-SPONSORED INSTITUTIONS

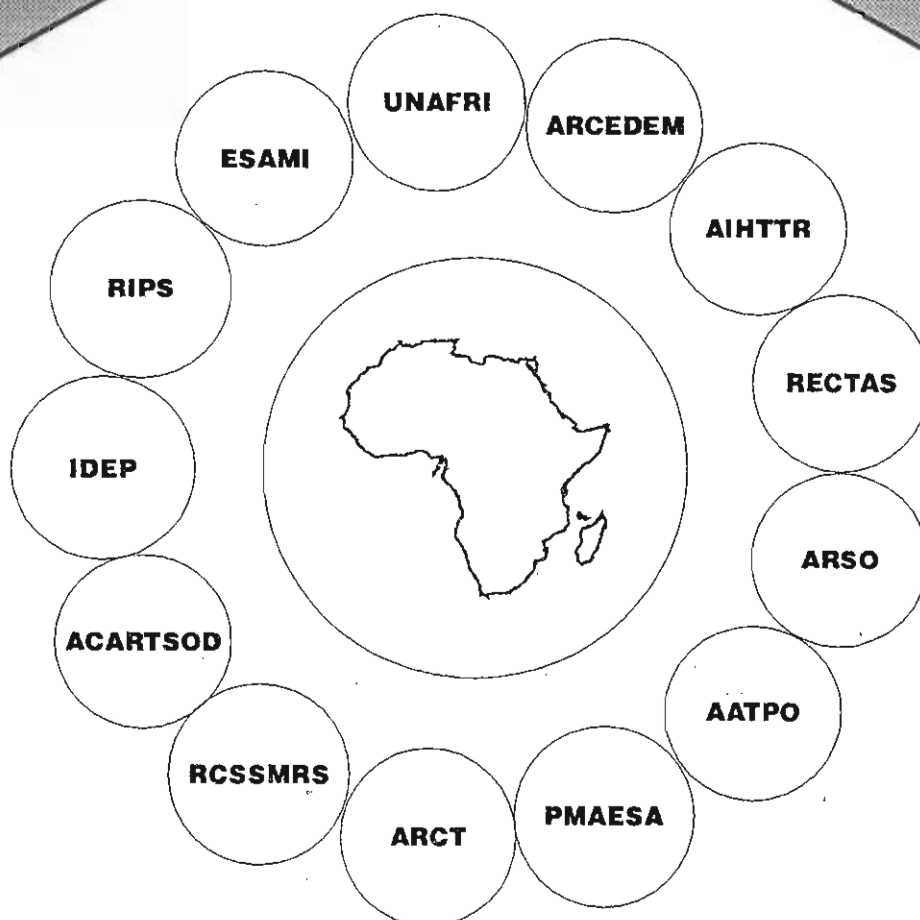
Volume One





# CAPACITIES AND CAPABILITIES OF ECA-SPONSORED INSTITUTIONS

Volume One



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# **I. Introduction**

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This document serves as a directory on the range of capacities and capabilities available at the ECA-sponsored regional and subregional institutions for exploitation by governments and their various ministries and departments, development and financial organizations, universities and research institutions, donors and development partners, the public and the private sectors. Users interested in contracting the services of these African institutions in their areas of competence will find it a useful roster for that purpose.

It provides among others information on the expertise, facilities and experiences of the institutions including examples of projects and consultancy services carried out by them for the benefit of member States and other clients. The information contained therein was compiled in consultation with the institutions that were able to respond.

The publication was intended to cover all the ECA-sponsored institutions which number about thirty, however, based on the responses received through the consultations, thirteen institutions are featured initially.

It is intended to publish in the future, a second volume to cover the remaining ECA-sponsored institutions that could not be included in this initial document.



## **II. Profiles and Capacities of the Institutions**

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### **Regional Institute for Population Studies (RIPS)**

#### **Part A: General Information**

##### **Name of Institution**

##### **Acronyms**

Regional Institute for Population Studies

RIPS

##### **Translated name of institution**

None

##### **Headquarters:**

City: Legon, Accra

Country: Ghana

P. O. Box 96

Telephone: 774070, 775381

Ext: 881

Telex: 2168 RIPS GH

Telegraphic address: RIPS

**Year of establishment:** 1972

##### **Member States of institution**

Botswana, Ethiopia, The Gambia, Ghana, Kenya, Lesotho, Libya, Malawi, Mauritius, Namibia, Nigeria, Seychelles, Sierra Leone, Somalia, Sudan, Swaziland, Uganda, Tanzania, Zambia, Zimbabwe.

**Geographical coverage:** English-speaking African countries

**Working languages:** English

#### **Part B: Expertise and Facilities**

##### **Corporate Objective**

Promote and strengthen knowledge and awareness of the importance of population factors in development planning in English-speaking African countries. To achieve this, the institution carries out the following activities:

- (a) Training courses in population and related fields;
- (b) Research on all aspects of population and related fields both at headquarters and in member States;

- (c) Workshops, seminars and meetings on national, subregional and regional population problems, in cooperation with appropriate national services and specialized agencies;
- (d) Advisory services in data collection, analysis, evaluation and use in planning development;
- (e) Documentation services in the various fields of population with respect to Africa, to research workers, national, subregional, and regional organizations;

### Nature and Focus of Activities

- (a) Population Data Collection
- (b) Demographic Analysis
- (c) Population and Development Inter-relationships
- (d) Mortality and Fertility Analysis
- (e) Studies on Nuptiality
- (f) Population Projections
- (g) Simulation Models

### Profile of Expertise Available

Name	Qualifications	Position	Area of interest/focus
P. O. Ohadike	B.A. (Hons) Sociology (Ghana), Ph.D Demography (Australia)	Director	Population and Development, Fertility and Mortality, Statistical surveys and social investigations, urban growth and development, international migration and human resources development.
K. Venkatacharya	M.A., Ph.D (Bombay)	Research Coordinator	Demography, Mathematics, Statistics, Computer models, Indirect Estimation of Fertility and Mortality.
S. C. Okoye	B.Sc. (Hons) Econ. (Ibadan), M.Sc Demography (London)	Demography Expert	Demographic Analysis, Statistics
A. F. Aryee	B.A. (London), M.A., Ph.D (York)	Associate Professor	Demography, Population Impact Project, Population Policy Implementation Projects, Small Grants Programme on Population For the Development of Economic and Social Research.
E. O. Tawiah	B.A. (Hons) Sociology (Ghana), M.Sc. Demography (London), Ph.D Sociology/Demography (Duke)	Senior Lecturer	Courses in Demography designed for both graduate and undergraduates.
I. Sembajwe	B.A. (Hons) Stats., Mgt. and Admin., Masters degree in Demography (Univ. of Dar-es-Salaam), Ph.D Demography (Australia)	Associate Professor in Demography	Mortality, Fertility, Health, women and development, population and development.

The above regular teaching staff capacity is supplemented by 13 Professors and Senior Lecturers provided as short-term support from the three Universities in the host country, Ghana.

### Facilities

#### Library Facilities

**Population and Social Science Library:** Jointly owned with Institute of Statistical Social and Economic Research (ISSER), University of Ghana. Stocks specialized materials on demography, sociology, economics, and on other social science subjects. Users include the University of Ghana, students, individuals and research institutions as well as visiting scholars. Current collection is about 30,000. CD-ROM POPLINE

Database has been installed since 1991 to enhance the literature search and review capabilities of users. Facility enables direct access to up-to-date information on population and family planning research worldwide.

### **Computer Facilities**

WANG VS 80 and a set of 9 PCs with varying capacities available. 20 additional compaq 486 machines expected. Computer data bank includes national censuses as well as national and international surveys.

### **Publications**

#### **Occasional Publications**

- (a) The Impact of Culture and Tradition on Fertility and Mortality in Africa
- (b) Development in Africa: A Social and Economic Perspective
- (c) Fertility and Mortality Estimation in Africa: Proceedings of a Workshop on the Estimation of Fertility and Mortality
- (d) Developments in Family Planning Policies and Programmes in Africa: Proceedings of a Colloquium on the Impact of Family Planning Programmes in Sub-Saharan Africa; Current Issues and Prospects
- (e) Some Thoughts on Urbanization: Evolution, Measurement and Manifestation in Africa

#### **Monographs Series**

- (a) Internal Migration and Regional Development in Africa: (Proceedings of a seminar held at the Institute in August 1985)
- (b) Population Dynamics and Change in Africa: Selected Essays
- (c) Estimation of Birth Rate and Related Measures in Sub-Saharan Africa
- (d) Problems and Prospects of Demographic Data Collection in Africa: A Case Study of Nigeria
- (e) Techniques of Demographic Data Analysis; with special Reference to Sub-Saharan Africa
- (f) Population Distribution and Resource Utilization in Africa: Selected Essays

#### **Survey Series**

- (a) A Study of Fertility and Contraception in Mpraeso- Eastern Region of Ghana
- (b) Patterns of Fertility and Migration in Abetifi (Eastern Region of Ghana)
- (c) Proximate Determinants of Fertility in Tutu ( Eastern Region of Ghana)
- (d) A Pilot Study of Migration and Housing in a Metropolitan Suburb

#### **Bibliography Series**

- (a) An Annotated Bibliography on Population and Development
- (b) Dissertations Submitted to the Regional Institute for Population Studies, 1972-1987: An Annotated Bibliography



## Part C: Experience and Performance

### Examples of Projects implemented by Institute for the benefit of member States:

(a) <b>RAF/92/P13-Training and Research( Institution-building project)</b>		
<b>Funding:</b>	<b>UNFPA</b>	<b>US\$ 611,395</b>
	<b>African Governments</b>	<b>US\$ 167,680</b>
	<b>Ghana Government/Other</b>	<b>US\$ 134,639</b>
	<b>Total:</b>	<b>US\$ 913,714</b>

**Results:** During 1972-1985, assisted the Institute in running its 12 months training programme leading to the Graduate Diploma in Population Studies and an 18 months(now 12 months) M.A. programme, 18 months M.Phil programme and 36 months Ph.D programme. Enabled Institute to conduct research in various aspects of population in member countries as well as provide ad-hoc courses, in-service training and advisory services and population information to member countries. Enrolment figures were: Graduate Diploma 330; M.A. 387; M.Phil 39; and Ph.D 7.

**Impact:** Candidates trained have returned to the government ministries and departments to undertake demographic assignments and influence population policies. A smaller proportion of trained candidates remain in training and research institutions and impart knowledge in population field studies;

- (b) UNESCO-SPONSORED/IDAMS Training Workshop on use of Micro Computers in Demographic Data Analysis;
- (c) RIPS/UAPS Workshop on use of SPSS Package on Personal Computers;
- (d) RIPS/UNECA Workshop on use of Micro Computers in Demographic Data Evaluation;
- (e) RIPS/UAPS Workshop on the Formulation and Writing of Research Proposals;
- (f) RIPS/UNECA Training Workshop on Methodologies and Use of Sub-National and Sectoral Population Projections.

The workshops were attended by approximately 150 participants mostly demographers and statisticians working in Government departments and institutions.

### Advisory, consultancy and other services provided:

Examples:

Member States:

- (a) Five demographic surveys in the metropolitan area of Lagos, at the request of Nigerian Government. The four-volume publication from the surveys constituted the basis for the planning of the relocation of the capital city of Nigeria from Lagos to Abuja;
- (b) Advisory services to governments of Ghana, Liberia, Libya, Nigeria and Sudan in the areas of census organization and analysis, education and economic planning;
- (c) Consultancy services to the Ghana Government in studies, implementation, monitoring and evaluation of population and development related activities including: World Fertility Pilot Survey in Ghana, Population Impact Project, migration study, urban population projections, restructuring of the education system, development and implementation of a social marketing programme to distribute health products through commercial outlets, school mapping exercise, UNFPA/Ghana Government Project on Population and Family Life Education and Communication Activities;



- (d) Provision of expertise in the evaluation of population policy projects in Sierra Leone as well as in Ghana;
- (e) Consultancy services in the evaluation of UNFPA Country Programme in Zimbabwe in the field of data collection, population and development, and population dynamics;
- (f) Assistance in writing and editing of publications including the following: Ghana Population Policy: Future Challenges; Population of Ghana 1980-85; Impact of Rapid Population Growth on Socio-Economic Development in Ghana; The Demographic Situation in Ghana; Population, Education and Nutrition for FAO; revision and updating of African version of Training Manual on Population, Education and Nutrition.

#### **Organizations and institutions:**

- (a) Advisory services to WHO on the evaluation of Research on Family Planning, to UNFPA on the setting up of demographic units in some universities in Africa, to the Population of UNECA with respect to the development of the Associated Population Multilingual Thesaurus and the setting up of the Population Information Network (POPIN-Africa);
- (b) Consultancy services in the preparation of a demographic training syllabus for the Ghana Institute of Journalism. Delivery of lectures at the Institute in this field;
- (c) Consultancy services in population training programme at UN/former USSR Population Training Centre, Moscow State University;
- (d) Provision of lecture assistance for UNFPA-financed project on Human Resources Development in Africa executed by IDEP.

#### **Professional Committees/Associations:**

Expert services and advice as member on following committees:

- (a) Advisory Committee on Health Transition Study Programme, Nigeria;
- (b) Scientific Planning Committee on Development and Rapid Population Growth in Africa, Paris;
- (c) Committee on Population, Child Survival and Health Programmes of the United States National Academy of Sciences, Washington.

#### **Pipeline projects/programmes requiring funding**

- (a) Training of 60 M.A students was programmed for the period 1993-1995. Fellowships are available from UNFPA for only 40 students. Additional resources required to train the remaining students;
- (b) Research programmes including the following: Greater Accra Fertility Survey; Role of Women in Fertility, Child Survival and Health Decisions in Ghana; Urban Housing and Living Conditions in Greater Accra (Total estimated cost- US\$ 100,000);
- (c) Fifty Publications(10 RIPS Newsletter, 10 Monograph series, 10 Survey Series, 10 Working Papers and 10 Occasional Publications, at a total estimated cost of US\$ 56,000).

#### **Research focus/capabilities**

Within the framework of students' research, which is essentially tied to the degree programmes, in particular the post-graduate programmes, as well as through faculty staff, research is conducted in a variety of areas including population and development, estimation of fertility and mortality by direct estimation techniques,

analysis of demographic and economic interrelationships. Results of research are usually published or reported on at international seminars and workshops organized by the Institute.

### **Public Awareness of the institution**

Information about the Institute is published in the Institute's regular Newsletter.

Information on the Institute has also been published in:

- (a) Information Assistance Directory: published by the International Council for Scientific and Technical Information, Paris France;
- (b) International Organization: A guide to International Non-profit Membership Organizations, Gale Research Inc., Detroit, Michigan, USA;
- (c) Commonwealth Secretariat's Planning Resources Directory (annual publication);
- (d) Directory of Development Research and Training Institutes in Africa, published by the Council for the Development of Economic and Social Research in Africa (CODESRIA) and the OECD Development Centre;
- (e) Ghana Population News. Newsletter of UNFPA/Ghana Government Project of the Ghana Ministry of Finance and Economic Planning.

## **Eastern and Southern African Management Institute (ESAMI)**

### **Part A: General Information**

#### **Name of Institution**

#### **Acronyms**

Eastern and Southern African Management Institute

ESAMI

#### **Translated name of institution**

None

#### **Headquarters:**

City: Arusha

Country: Tanzania

P. O. Box 3030

Telephone: 8383/8

Fax: 057-8285

Telex: 42076 ESAMI TZ

OR

Box 56628, Nairobi, Kenya

Telephone: 441513/4, 441061

Fax: 02442231

Telex: 25338 ESAMI KE

ESAMI also has country field offices located in Maputo (Mozambique); Windhoek (Namibia); Dar-es-Salaam (Tanzania); UNECA Addis Ababa (Ethiopia); Kampala (Uganda); Lusaka (Zambia); Harare (Zimbabwe); and Lilongwe (Malawi).

**Year of establishment:** 1974

### **Member States of institution**

Angola, Botswana, Comoros, Djibouti, Ethiopia, Kenya, Lesotho, Malawi, Madagascar, Mauritius, Mozambique, Namibia, Seychelles, Somalia, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe. (Full members underlined)

**Geographical coverage:** The member countries of Eastern and Southern Africa. However, in practice participants come from many English-speaking countries and other parts of the Commonwealth beyond Africa.

**Working languages:** English

## **Part B: Expertise and Facilities**

### **Corporate Objective**

Improve the performance and management effectiveness of public and private institutions and enterprises within member states.

### **Nature and Focus of Activities**

- (a) Management Interventions (Training, Research, and Consultancy)
- (b) Multidisciplinary Research and Consultancy
- (c) Problem and Policy-Oriented Research
- (d) Advocacy and Advisory services
- (e) Process Consultancy and Enterprise Development

### **Training Programmes: Three Types**

- (a) Open Programmes
- (b) Tailor Made Programmes
- (c) Fully Donor Sponsored Programmes

### **Areas of Concentration**

- (a) Human resources
- (b) Finance and Banking
- (c) Health Services Management
- (d) Transport and Infrastructural Management
- (e) Corporate Entrepreneurship and Development
- (f) Women in Development and Entrepreneurship
- (g) Records and Documentation Management



- (h) Policy Analysis and Public Sector Management
- (i) Applied Research Methods
- (j) Small-scale Industry Management
- (k) Agricultural Research Management
- (l) Environmental Policy Management
- (m) International Trade.

## Profile of Expertise Available

Name	Qualifications	Position	Area of interest/focus
L. Abe	BSc, MSc, PhD: Agricultural Sciences	Project Advisor, Agricultural Research Management	Agricultural Research Training, Project/Programme Management, Use of Computers in Management.
E. M. Amira	BCom: Business Administration, MBA: Business Development	Coordinator, Women Entrepreneurship Development	Business Development, Corporate Banking, Financial Management.
D. L. Banda	BA: Economics, MA: Transport Economics	Senior Consultant	Transport Economics, Policy Planning and Logistics, Railway Marketing, Road Safety.
B. Batchu	BA: Education (York) MBA: Human Resources	Principal Consultant	Human Resources Development.
A. Beyene	DBA: Business MBA: Business Administration	ESAMI Liaison Officer Addis Ababa	International Business, Strategic Management Project Design and Management.
N. Bisrat	BSc: Engineering Sciences	Principal Consultant	Air Transport Management, Corporate Planning.
R. Bulimo	BA: Business Administration	Projects Management Officer	Business Administration and training, Project Management.
C. F. Getecha	BA: (General) MA: Business Administration	Field Consultant	Management Training, Financial and Management Accounting.
A. W. Inambao	BSc: Human Biology MD/MPH: Health Planning	Principal Consultant	Health Economics and Planning Health Systems Research.
M. P. Kindiano	BA: Finance MBA: Accounting	Principal Consultant	Accounting and Financial Management, Auditing, Budgeting, Project Appraisal.
J. J. Kilimba	BA: Commerce MSc: Finance	Principal Consultant	Development Finance, Accounting Information Systems.
E. S. K. Lyimo	BA: Mass Communication and Law Post Graduate Diploma: University Administration	Information and Public Relations Officer	Public Relations, Communication, Information Management.
L. W. Malisa	BCom: Marketing	Marketing Research Officer	Business Promotion and Marketing
H. Mapolu	BA: Sociology MA: Human Resources	Senior Consultant	Labour Economics, Human Resources Management, Performance Appraisal, Industrial Relations.
J. S. Matte	BA: Administration MPA: Public Administration	Principal Consultant	Human Resources Management, Public Administration.
T. B. Mbise	BA: Economics MA: Economics PhD: Economics	Principal Consultant	Process Consultancy, Development Planning and Management.
P. M. Mitambo	BCom: Accounting MBA: Finance	Consultant	Accounting and Financial Planning, Control and Management.
J. S. Mlagala	BCom: Planning M.A.: Industrial Planning and Administration.	Senior Consultant	Industrial Trades and Crafts, Small-scale Enterprise Development, Banking, Project Planning.
G. Mpyisi	BSc: Science Diploma: Computers	Consultant	Computer Systems Design and Development.
L. Mpande	BA: Admin. MPA: Admin. PhD: Public Admin.	Principal Consultant	Training Material Development, Faculty Skills Development, Human Resources Development, Job Evaluation.
M. B. Munkumba	BA: Accountancy ACCA: Accountancy	Finance Manager	Revenue Management, Accounting and Auditing.

Name	Qualifications	Position	Area of interest/focus
A. Musana	ALA: Library MSLS: Library	Librarian	Management of Information and Records, Computing and Documentation.
K. Muragu	Bcom: MBA: PhD: Finance	Consultant	Finance and Banking, Accounting and Auditing.
T. G. Mushambi	Certificate: Computing MSc, PhD: Engineering Management.	Director of Operations/Transport Sector	Aviation Transport Mgt., Engineering Management and Operations, Multi-modal Transport Mgt.
G. Musoke-Lwanga	BCom: Business MBA: Marketing Certificate: Export Marketing	Deputy Director General	Business Policy, Marketing, International Trade, Policy Analysis and Management.
K. S. Mutukwa	BA: Politics MA/PhD: Political Science	Director General, ESAMI	Regional Integration, Environmental Education, Policy Analysis and Mgt. Institutional Devpt.
V. Mvano	BCom, MBA, MA, PhD: Economics	Senior Consultant	Operations Research Development, Planning, Material Management, Statistical Applications.
T. S. Mwanyika	BCom: Accounting MCom: Accounting	Senior Principal Consultant	Auditing and Banking, Financial Management, Cost Accounting.
N. Mwase	MA: Economics PhD: Transport Economics	Coordinator, Transport Programmes	Transport Economist, Manpower Planning, Regional Integration, Research Training.
B. L. Mwape	BA: Politics and Administration, MSc/PhD: Political Science	Senior Consultant	Policy Analysis, Public Sector Management, Management Styles and Decision Making.
G. R. Ndoro-Mkombachoto	BCom: Finance and Accounts, MBA: Finance and Accounts	Consultant	Financial Management, Private Business Devpt., Women and Development, Entrepreneurship.
H. B. Njuguna	BSc: Engineering MEs: Engineering Science	Senior Consultant	Road Transportation, Materials Management.
W. Njuru	BCom: Accounting MBA: Finance	Director- Consultancy Services	Corporate and Financial Restructuring and Mgt.
H. P. Olule-Odok	BCom: Marketing MBA: Business and Finance	Consultant	Ports and Shipping Mgt. and Operations, Freight Clearing and Forwarding.
B. Omari	BA: Education MA: History MA: Curriculum Devpt.	Printing Manager	Editorial Work Publishing, Printing and Publication Management.
I. M. Omari	BA: Education MA: Psychology PhD: Educational Psychology and Economics	Coordinator, Research and Development	Research Methods, Institutional Devpt. and Management, Educational Devpt. and Economics.
C. G. Semkange	BSc: Electronic Engineering MA: Electronic Engineering	Senior Consultant	Management Information System, Information Technology and Systems Development.
H. M. Shila	BSc: Science MSc: Computer Science	Systems Analyst	Systems Analysis, Computer Networks.
G. W. Sekinobe-Musoke	BA: Finance and Accounts MBA: Accounting and Auditing	Principal Consultant	Accounting and Auditing, Computer Auditing, Public Sector Auditing, Internal Auditing.
A. S. Sithole	Diploma: Computer Hardware Maintenance	Field Consultant	Information Management Systems, Structured System Analysis and Design, MIS.
A. S. Siwela	MSc: Business Admin. Diploma: Social Work BA: Human Resources	Field Consultant	Personnel Admin., Marketing, Staff Development.
L. P. Sooli	BA: Business Admin. Post Graduate Dip.: Economics MSc: Economics	Senior Consultant	Project Planning and Management, Enterprise Promotion and Marketing.
C. K. Thube	BA/MA: Economics MHCC: Health Planning	Senior Consultant	Health Economics, Health Sector Management, Health Systems Planning.
L. W. Turuka	BA: Education Certificate: Training and Development MA: Public Admin.	Senior Consultant	Human Resources Mgt., Training of Trainers, General Management, Management of Training Functions.
G. Wani	BCom: Accounting	Management Accountant	Project Budgeting and Evaluation, Auditing.
E. K. Yamoah	BSc: Engineering MBA: MSc Engineering	Principal Consultant	Project Management, Transport Policy, Road Construction Maintenance, Planning and Management, Contract Negotiations.

## **Facilities**

### **Library Facilities**

- (a) Over 10,000 Books
- (b) 70 Journal Subscriptions
- (c) 30 Journal Gifts and Exchanges
- (d) Fully Serviced Agricultural Research Documentation Centre
- (e) Special Collections: Women and Development;  
World Bank publications;  
International trade.

### **Computer Facilities**

- (a) Training Laboratory 15 pcs
- (b) Secretarial Room 10 pcs
- (c) Offices for Staff use 20 pcs
- (d) Most staff have their own pcs.

### **Training Facilities**

- (a) Television Satellite Receiver
- (b) Lecture Rooms with Flip Charts and Overhead Projections
- (c) Audio Visual Room with graphic artists
- (d) Computer Laboratory
- (e) TV-Video Facilities
- (f) Management Training Packages for TV and Computer use
- (g) Conference Rooms
- (h) Management Video films.

### **Printing Press**

Fully Fledged Publishing and Printing Facilities including Photocopies, Desk Top publishing, Typesetting, Bindery, etc.

### **Hostel Facilities**

120 Fully furnished rooms plus Dining and Laundry Facilities.

### **Other Facilities**

- (a) Facilities for Transporting participants in Nairobi and Dar-es-Salaam
- (b) Residential Medical Facilities

## **Publications**

- (a) Regular Journal: Two issues a year: -African Management Forum
- (b) Books and Monographs



- (c) Journal Articles - several per year
- (d) Regular news media articles in member States
- (e) ESAMI Newsletter, quarterly
- (f) Annual Reports

## **PART C: EXPERIENCE AND PERFORMANCE**

### **Examples of Projects implemented by Institute for the benefit of member States**

Projects in progress: ( Donors in parenthesis)

- (a) Agricultural Research Management SADC/ISNAR-ESAMI (USAID)
- (b) African Management Services Company - AMSCO (Consortium)
- (c) Training Materials Development (CIDA)
- (d) Institutional Research and Support Systems (IDRC)
- (e) Policy Change and Management (CFTC/CIDA)
- (f) Network for Executive Women Managers (CIDA)
- (g) Management and Marketing of Information Services (IDRC)
- (h) Institutional Capacity Building (UNDP/CFTC)
- (i) Transport Sector and Works Procurement (Netherlands Government/World Bank)

All projects are housed at Headquarters and are regional in nature. They involve training or research or any combination of these elements.

### **Examples of Training Programmes**

- (a) Faculty Skills Development Programme
- (b) Strategic Approaches to Managing Change and Continuity
- (c) Human Resources Planning
- (d) Public Expenditure Management
- (e) Workshop in Management Information System
- (f) Structured Systems Analysis and Design
- (g) Health Sector Economics and Finance
- (h) Aviation Economics and Planning
- (i) Transportation Management-Intermodal
- (j) Transport Policy and Planning for Senior Government Officers
- (k) Consultancy Skills Development
- (l) Project Appraisal for the Private Sector
- (m) Privatisation and Negotiation of Joint Ventures and Management Contracts.
- (n) Executive Skills Development Programme for Women Entrepreneurs
- (o) Management Development Programme for Women Entrepreneurs
- (p) Records and Documentation Management
- (q) Policy Analysis and Public Sector Management Seminars.

### **Advisory, consultancy and other services provided**

ESAMI's consultancy services strive to improve management performance of government ministries and departments, commercial and business enterprises and development agencies through process consultancy techniques whereby clients participate at all stages of the consulting process.

The major areas of consulting include: Policy Analysis; Business Development; Transport and Infrastructural Development; Management Information System; Manpower Planning, Development and Utilization; Financial and Economic Analysis of Projects; Production and Plant Management; Financial Restructuring; Institutional Analysis and Organization; Corporate Planning and Development.

#### **Examples of Consultancy Project Reports:**

- (a) The National Bank of Commerce (Tanzania): "The Future Challenges of Management Education and Training". July 1986;
- (b) "The Role and Management of Bandari College(Tanzania)". June 1992;
- (c) "Study on Zambia Unified Accountancy Profession". July 1992;
- (d) "Kenya Tea Development Authority Management Review". June 1992;
- (e) "Mission Report on Motor Vehicle Division of Nile Hotel Complex Ltd", Kampala, Uganda. May 1992;
- (f) "The Structure and Functions of the Joint OAU-ECA-ADB Secretariat for the African Economic Community". March 1993.

### **Research focus/capabilities**

Training and consultancy services should always be based on durable and valid knowledge. The research programme is therefore meant to enrich ESAMI training and consultancy services, including the production of relevant training materials. This Programme also seeks to produce complementary research knowledge in areas such as: Structural Adjustment and Institutional Reforms; Regional Cooperation and Integration; Management Reforms and Higher Education; Culture and Management; and Social and Management Science Research Methods.

#### **Examples of Research Projects: Completed and On-going**

- (a) Reaching the Top: Women Managers in Eastern and Southern Africa. ( Book available)
- (b) Managing with Excellence: An Effective Woman Chief Executive. (Printing stage)
- (c) Reshaping the African Civil Service. (Printing stage)
- (d) Gender Representation in Top Level Management: A Comparative Study ( In progress)
- (e) Management Information Needs for University Governance (In progress)
- (f) The Relationship Between Central Government and Local Authorities in Eastern and Southern Africa (In progress)

### **Public Awareness of the institution**

The Institute has appeared in several local dailies in Zambia, Uganda, Kenya, Tanzania, and Malawi as well as in regional and international publications.

## Examples of Statements made about ESAMI:

"ESAMI offers a viable African alternative that is one third as expensive as training abroad and its consultancy fees are far more competitive than those paid to expatriates". - **The World Bank: Sub-Saharan Africa: From Crisis to Sustainable Growth, 1989.**

"The status of ESAMI as a management development institute is critical in this era of public administration and national management reforms in Africa". - **Chief Emeka Anyaoku, Secretary General of the Commonwealth receiving Board of Governors' delegation in London, 1992.**

"ESAMI has the merit of providing services to its member states at full international standards, based to a very large extent on the use of indigenous resources, in particular in human resources". - **Joe Swift, EEC Resident Representative, Dar-es-Salaam, 1987.**

## **African Centre for Applied Research and Training in Social Development (ACARTSOD)**

### **Part A: General Information**

#### **Name of Institution**

#### **Acronyms**

African Centre for Applied Research and Training in Social Development

ACARTSOD

#### **Translated name of institution**

Centre Africain de Recherche Appliquée et de Formation en Matière de Développement Social

CAFRADES

#### **Headquarters:**

City: Tripoli

Country: Libyan Arab Jamahiriya

P. O. Box 806606

Telephone: (218) (21) 833640

Fax: (218) (21) 832357

Telex: 20803 ACARTSOD LY

**Year of establishment:** 1977, but started operations in 1981

#### **Member States of institution**

Algeria, Angola, Benin, Burkina Faso, Burundi, Cameroon, Central African Republic, Congo, Egypt, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Kenya, Liberia, Libyan Arab Jamahiriya, Mali, Morocco, Niger, Senegal, Sierra Leone, Sudan, Togo, Uganda, Zaire.

**Geographical coverage:** All UNECA and OAU Member countries



**Working languages:** Arabic, English and French

## **Part B: Expertise and Facilities**

### **Corporate Objective**

Undertaking and promotion of applied research and training activities in social development at national, subregional and regional levels, in fulfilment of its mandate to help evolve and implement in Member States of the Organization of African Unity (OAU) and the United Nations Economic Commission for Africa (UNECA), new approaches and strategies in social development that are in line with African realities, aspirations and priorities.

### **Nature and Focus of Activities**

- (a) Provision of training for high-level personnel required for research and training, and the promotion of social development programmes
- (b) Organization of seminars, the undertaking of applied research programmes and the development of indigenous teaching and research materials
- (c) Undertaking or contribution to research aimed at promoting rural development programmes
- (d) Contribution to the formulation of national strategies for social development
- (e) Provision of assistance to national universities and social work institutions in the field of training
- (f) Initiation and fostering of relations with other Centres, institutions and organizations having objectives similar to those of the Centre, within and outside the Africa region
- (g) Participation in such other activities in furtherance of the objectives of the Centre

The Centre is also in the process of establishing a one-year professional course leading to the award of a post-graduate Diploma in Social Development. The Programme aims at equipping trainees with new skills in the social development sectors to be able to contribute effectively to resolving the challenging social problems in the context of overall development in Africa.

### **Profile of Expertise Available**

Name	Qualifications	Position	Area of interest/focus
Mohamed El-Mustapha KABBAJ	Ph.D: Philosophy and Human Sciences	Executive Director	Philosophy and human sciences
Yassin Ali El-Kabir	Ph.D (Sociology)	Deputy Executive Director	Sociologist
Lamis Gabsi (Mrs)	M.Sc (Library Science)	Head of Library and Documentation	Library Science
Oscar Gasana	M.A. (Applied Education)	Head, Information and Publication	Applied education

In addition to the above permanent professional staff members of ACARTSOD, the Centre has built up a network of experienced Social Scientists and Experts, referred to as ACARTSOD Non-Resident Research Associates, drawn from the various universities and research institutions in all the subregions of Africa. The Centre also has Resident Social Development Research Fellows.

## Non-Resident Research Associates

Name	Country	Address
Prof. Slemene Bedrani	Algeria	Director, (CREAD) Centre de Recherche en Economie Applique (Research Centre for Applied Economics), Algiers.
Dr. Fatma Oussedik	Algeria	c/o CREAD, Algiers.
Prof. Albert Tevedjre	Benin	World Social Prospects Association, Grand-Sacconnex, Geneva.
Dr. Kabaro Miti	Botswana	University of Botswana, Gaborone.
Prof. Tsafak Gilbert	Cameroon	University of Yaounde, Yaounde.
Dr. Thersa M. Ndongko	Cameroon	University of Yaounde, Yaounde.
Prof. Wilfred Ndongko	Cameroon	Institute of Human Sciences, Yaounde.
Prof. A.B.M. Mafege	Egypt	American University of Cairo, Cairo.
Dr. Malak H. Zaalouk	Egypt	University of Cairo, Cairo.
Dr. Samir Naim	Egypt	Ain Sham University, Abbasiya - Cairo.
Dr. Girma Zawdie	Ethiopia	University of Strathclyde, Glassgow.
Dr. Seyoum G. Salassie	Ethiopia	Addis Ababa University, Addis Ababa.
Dr. Eshetu Chole	Ethiopia	Addis Ababa University, Addis Ababa.
Prof. Mesfin Wolde Mariam	Ethiopia	Box 7275, Addis Ababa.
Prof. Patrick A. Twumasi	Ghana	University of Ghana, Legon - Accra.
Prof. Kodwo Ewusi	Ghana	University of Ghana, Legon - Accra.
Dr. Chris Abotsi	Ghana	University of Ghana, Legon - Accra.
Dr. T. O. Fadayomi	Nigeria	Nigerian Institute of Social and Economic Research, Ibadan.
M. Mahamane Falmata	Niger	Ministere de la Fonction Public, du Travail et de la Formation Professionnelle, Niamey.
Prof. Al El-Hawat	Libya	Al Fatah University, Tripoli.
Dr. Ibrahim Kursany	Libya	Omar El-Mukhtar University, El-Beida/Libya.
Dr. Bashir El-Wefati	Libya	University of Al-Fatah, Tripoli.
Prof. Ali Mazrui	Kenya	State University of New York, Binghamton, USA
Prof. Peter A. Nyong'o	Kenya	African Academy of Sciences, Nairobi.
Prof. M.O. El-Samani	Sudan	University of Khartoum, Khartoum.
Dr. Hafiz Abbas Gasim	Sudan	Ministry of Finance and Economic Planning Administration, Khartoum.
Prof. Omar Bashir	Sudan	University of Khartoum, Khartoum.
Mamadou Gueye	Senegal	Ministere du Developpement Social, Dakar.
Dr. G.K. Munishi	Tanzania	University of Dar-es-Salaam, Dar-es-Salaam.
Dr. Amos Mhina	Tanzania	University of Dar-es-Salaam, Dar-es-Salaam.
Prof. Galase Mutahaba	Tanzania	AAPAM, Addis Ababa.
Prof. P. Twagiramutara	Rwanda	University of Rwanda, Butare (Rwanda).
Prof. Eric P. Kibuka	Uganda	UNAFRI, Kampala.
Dr. Donald Chanda	Zambia	University of Zambia, Lusaka.
Mr. Akukwi Ndoyte	Zaire	National University of Kinshasa, Kinshasa.
Prof. Kalonji Ntalaja	Zaire	University of Zaire, Kinshasa.
Dr. Dewell Kaseke	Zimbabwe	School of Social Work, Harare.

## ACARTSOD's Resident Social Development Research Fellows

Name	Country	Address
Prof. Boubacar Ly	Senegal	University of Dakar, Dakar.
Dr. Austin Isamah	Nigeria	University of Ibadan, Ibadan.
Dr. Hocine Kouache	Algeria	16040 Hussein Dey, Algiers.
Prof. Onigu Otite	Nigeria	University of Ibadan, Ibadan.
Dr. Issa K. S. Musoke	Tanzania	University of Dar-es-Salaam, Dar-es-Salaam.

## Facilities

### Library Facilities

ACARTSOD has a specialized Library in social development, with subscription to various journals and publications in that field. The Library was initially established to support the Centre's research and training activities, but it now has documentation functions, viz: stocking and cataloguing of periodicals, monographs, reports, reference materials and miscellaneous publications from various sources, including regional and international organizations.

### Publications

- Social Implications of the Lagos Plan of Action for the Economic Development of Africa 1963; 67p. Bilingual Publication (English and French). Price US\$ 5
- Planification et administration sociales en Afrique: problèmes et méthodes 1983, 157p. Papers presented at the Workshop for Social Development Officers from West and Central Africa. Training Series No.2. Price US\$ 15
- Social Implications of Industrialization in Africa 1986; 49p. (Also available in Arabic). Training Series No.4. Price US\$ 5
- Youth Facing Employment Crisis in Africa 1987; 79p. Proceedings of the Regional Workshop held in Tripoli, Libyan Arab Jamahiriya, 17-22 November 1985. Training Series No.5. (Also available in Arabic). Price US\$ 5
- Social Security Systems in Africa 1986; 49p (Also available in French) Research Series No.2. Price. US\$ 5
- Government Budgetary Allocation for Social Development in Eastern Africa 1986; 61p. Research Series No.3. Price US\$ 5
- Participatory Forms for Self-Reliance in Rural Development: The Experience of Eastern Africa 1987; 70p. Price US\$ 5
- Les mass media et la société africaine 1987; 110p. Price US\$ 7.50
- African Social Situation 1989; 56p. Price US\$ 5
- Social Indicators for Development Planning and Policy in African Countries 1989; 56p. Research Series No.7. Price US\$ 7.50
- Ethnicity, Citizenship, Stability and Socio-Economic Development 1990; 92p. Proceedings of the Regional Workshop held in Tripoli, Libya, 5-9 August 1989. Price US\$ 5
- Situation sociale en Afrique: Les Jeunes 1990; 55p. Research Series No.8. Price US\$ 5
- La crise alimentaire en Afrique: considérations méthodologiques 1990; 45p. Research Series No.9. Price US\$ 5



- (n) *Ethnicité, citoyenneté, stabilité et développement socio-économique en Afrique centrale* 1990; 40p. Research Series No.10. Price US\$ 5
- (o) *Family Relations, Kinship and Social Development in Ghana* 1990; 30p. Research Series No.10. Price US\$ 3
- (p) *Inégalité et déséquilibres villes/campagnes en Afrique* 1990; 20p. Research Series No.12. Price US\$ 3
- (q) *The Effects of Structural Adjustment Policies on Low-Income and Vulnerable Groups in Malawi* 1990; 36p. General Series No. 3. Price US\$ 3
- (r) *The Real Implications of the Economic Stabilization on the Low-Income Groups in Zambia* 1990; 25p. General Series No.4. Price US\$ 2.50
- (s) *The IMF/World Bank-sponsored Programmes and Social Policy in Tanzania* 1990; 15p General Series No.5. Price US\$ 2
- (t) *Understanding Africa's Food Problems: Social Policy Perspectives* (Ed. Hans Zell Publishers, Oxford 1990; 259p. ISBN 0-905450-6). Price US\$ 48
- (u) *Social Determinants of Labour Productivity in West Africa.* (Ed. Hans Zell Publishers, Oxford 1990; 283p. ISBN 0-905450-48-5) 283p. Price US\$ 48
- (v) *The African Social Situation: Crucial Factors of Development and Transformation.* (Ed. Hans Zell Publishers, Oxford 1990; 215p. ISBN 0-905450-78-7) 215p. Price US\$ 48
- (w) *Social Development in Africa: Strategies, Policies and Programmes After the Lagos Plan of Action.* (Ed. Hans Zell Publishers, Oxford 1990; ISBN 0-905450-28-0). Price US\$ 48

## **Part C: Experience and Performance**

### **Examples of Projects implemented by Institute for the benefit of member States**

Under its Social Development Research Programme, ACARTSOD has undertaken a number of socio-economic studies dealing with such topics as: Rural Development and Food Problems; Social Indicators for Development Planning and Policy; Social Development Strategies, Policies and Programmes; Youth Unemployment; Women and Development; Structural Adjustment Programmes; Ethnicity and Socio-Economic Development; Harmonization and Extension of Social Security Systems; and Africa's Social Situation.

Many of the ACARTSOD publications are the result of research projects carried out at national, subregional and regional levels.

On-going research projects include: Youth and Unemployment in Africa; and Drought in Africa - Socio-Economic Effects and their Implications for Development. These projects, jointly financed by the Islamic Development Bank (IDB) and ACARTSOD, are nearing completion. IDB-sponsored conferences are planned subsequently to review the research reports before they are finally published.

Other planned projects for which funding is yet to be found include: The Socio-Economic and Environmental Impact of the Great Man-Made River; African Migrants in Libya; Women and Employment in Libya; Moroccan Migrants in Libya; Water Conservation in North and East Africa; The Islamic Family Structure; and The African Environment and its Protection. The last three projects are expected to obtain financial support from the Islamic Development Bank.

## **Examples of Training programmes**

Various training programmes have so far been conducted by the Centre for the benefit of member States: A total of 1,471 participants comprising social scientists, high-level government officials, policy makers, research and training personnel, as well as experts from external institutions (outside Africa) have attended these programmes. Topics covered included:

### **Regional Conferences:**

- (a) Social Aspects of Industrial Development Decade for Africa
- (b) Youth and Unemployment Crisis in Africa
- (c) African Social Situation
- (d) Ethnicity, Democracy and Development in Africa
- (e) Social and Economic Impact of the Structural Adjustment Programmes in Africa

### **Subregional Conferences:**

- (a) Women and Development in North Africa
- (b) Evaluation of Budgetary Allocations for Social Development in East Africa
- (c) Social Security Systems in Africa
- (d) Social Planning and Social Policies in Central Africa
- (e) Youth and Unemployment in West Africa

### **National Seminars/Workshops:**

- (a) Evaluation of Social Development projects
- (b) Social Policies and Allocation of Financial Resources
- (c) Social and Economic Planning

With a pledged assistance by the Government of Libya to modify and expand the existing physical facilities of ACARTSOD, plans are afoot to conduct more residential training programmes.

### **Advisory, consultancy and other services provided:**

The potential in the area of consultancy and advisory services by the Centre is quite immense and is yet to be fully realized. The Centre is capable of undertaking special consultancy assignments in its field of competence, which is social development. For example, the Centre undertook a consultancy assignment on behalf of the United Nations Economic Commission for Africa (UNECA) on "Social Trends and Major Social Development Problems in Africa" the report of which was submitted to the Fifth Conference of African Ministers of Social Affairs. The Centre was also designated to revise a major policy document of the Organization of African Unity (OAU) entitled "African Charter for Social Action", also submitted to the aforementioned Conference.

### **Research focus/capabilities**

The Centre generally carries out applied research on social development issues.

# **Institut Africain de Développement Economique et de Planification (IDEP)**

## **Part A: General Information**

### **Name of Institution**

Institut Africain de Développement Economique et de Planification

### **Acronyms**

IDEP

### **Translated name of institution**

United Nations African Institute for Economic Development and Planning

### **Headquarters:**

City: Dakar

Country: Senegal

P. O. Box 3186

Telephone: (221) 23.10.20

Fax: (221) 22.29.64

Telex: 51579 IDEP SG

**Year of establishment:** 1962, but started operations in 1963

### **Member States of institution**

Algeria, Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo, Cotê d'Ivoire, Djibouti, Egypt, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea Bissau, Guinea, Kenya, Lesotho, Liberia, Libyan Arab Jamahiriya, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Namibia, Niger, Nigeria, Rwanda, Sao Tome e Principe, Senegal, Seychelles, Sierra Leone, Somalia, Sudan, Swaziland, Tanzania, Togo, Tunisia, Uganda, Zaire, Zambia, Zimbabwe.

**Geographical coverage:** Africa region

**Working languages:** English and French

## **PART B: EXPERTISE AND FACILITIES**

### **Corporate Objective**

Undertaking of a wide range of activities related to economic development and planning in Africa. In this context, the orientation and content of IDEP's programmes are based on the development priorities of African countries as expressed in such documents as the Lagos Plan of Action, APPER/UN-PAARED, and the UN New Agenda for Development in Africa.



## Nature and Focus of Activities

- (a) Provision of training courses of various duration on different aspects of development and planning
- (b) Organization, in cooperation with appropriate national services and regional and international institutions, of conferences, seminars and workshops on specific subjects related to African development
- (c) Undertaking of research on topics of current interest to African countries on economic development issues, management and planning, focussing on practical and concrete problems
- (d) Provision of direct consultancy/advisory services on economic development experiences of African countries

## Training Programmes:

- (a) A Long-term M.A. degree programme in Economic Development and Planning. The programme has the following content:
  - (i) Basic Programme on Macro-economic Policy Analysis, Management and Planning in Africa, with emphasis on macro-economics of development and structural adjustment policies, micro-economic policy design and project evaluation, international economics and regional integration;
  - (ii) Short-term (three months) specialization programmes dealing with planning and management of priority sectors of the African economy, with emphasis on operational tools and techniques, concrete studies and empirical investigations based on African-specific economic conditions and experiences;
  - (iii) Research Programme focused on training in research methodology, techniques and skills for preparing the M. A. thesis. This programme is extended to cover also government or institutions-sponsored independent research activities.
- (b) Basic Diploma Programme in Macro-Economic Policy Analysis, Management and Planning;
- (c) Tailor-made training programmes in response to specific requests from member States. These mainly consist of in-service executive training workshops of about 4 weeks duration.

## Profile of Expertise Available

Name	Qualifications	Position	Area of interest/focus
Jeggan Senghor	B.A. (Hons) McGill, B.Sc. (Hons) (Econs) London. M.Phil. (Yale) Ph.D. (Yale)	Director	Regional Integration, public management, economic restructuring.
Aderanti Adepoju	B.Sc (Econ) Ile-Ife M.Sc (Econ) London Ph.D (Demography) London.	Coordinator, IDEP/UNFPA Project on Population, Human Resources and Development	Population and Development interrelations, migration and development, population policies.
Philip Quarcoo	B.Sc (Econ) Univ. of Ghana M.A & Ph.D (Econ) University of Western Ontario, Canada	Chief of Training Division	Macro-economic policy analysis, management and planning, economic policy and planning models, fiscal reforms, trade and development.
Mohammed Haddar	Maîtrise ès-Sciences Economiques (Tunis), D.E.S ès-Sciences Economiques (Paris I), Doctorat d'Etat ès-Sciences Economiques (Paris I)		Development economics, international economics, development problems.

Name	Qualifications	Position	Area of interest/focus
Taufik Pakhfakh	Read Economics at University of Grenoble (France) and Business Administration at University of Lausanne (Switzerland)	Chief of Administration, Finance and Conference Services	Economics, administration, finance, conference services.

The above core professional staff capacity is supplemented by the services of part-time lecturers from the University of Dakar, research institutions and international organizations, as well as tutorial/research assistance. Currently, there are five such part-time lecturers and two tutorial/research assistants.

In addition, experts and senior regional advisers respectively from both the technical divisions and the Multi-Regional Advisory Services Group of the United Nations Economic Commission for Africa, participate actively in the work of the Institute including providing lectures, supervising research work, and serving as resource persons for seminars, workshops, etc.

IDEP's capacity to deliver its training, research and consultancy services is further bolstered through the use of its extensive network of African specialists within and outside the Africa region. In this regard, IDEP has compiled a Roster of African Experts.

## Facilities

### Library Facilities

IDEP's library contains a splendid collection of various books and materials in the field of development economics and on economic development and planning in Africa. Among the subject areas covered are: economic development and planning; project evaluation; macro-economic and structural adjustment policies; agricultural development; and human resources development. Current stocks are:

- (a) Books 5,500 volumes
- (b) Documents 30,692 volumes
- (c) Bound and Unbound Journals 850 titles
- (d) Current journals 70 titles
- (e) Current newspapers 9

### Computer Facilities

A Computer Services Unit exists which has recently acquired five new computers including a special one with facilities for printing publications such as newsletter, working paper series, folders, etc. With this special facility, the Institute is poised to establishing a Publication Unit, of prime importance to its work.

The Institute's computer facilities will reach a total of 23 computers, compared to 16 in 1992 and 15 in 1991.

## Conference Facilities

As the Institute is becoming a major conference venue (about 20 conferences, seminars and workshops were organized in 1992-1993), there is a Conference Services Unit representing one of the most important service areas in IDEP. National, subregional and regional organizations and institutions frequently use the facilities available which comprise a well-equipped conference room, efficient interpretation/translation and secretarial support services. The Interpretation and Translation Service has a crop of experienced professional personnel with AIIC recognition and trained in both African and foreign institutions.

## Training Facilities

- (a) Lecture Rooms and Amphitheatre
- (b) Computers

## Printing Press

A Publication Unit is in the offing.

## Other Facilities

There is a Cafeteria which also caters for Conference participants. It organizes refreshments, coffee breaks and cocktails during conferences.

## Publications

Main publications include:

- (a) IDEP Newsletter
- (b) IDEP Working Papers, Nos. 1, 2 and 3 respectively as follows: " Social Consequences of Structural Adjustment in Senegal"; Is Planning Dead"; Perspectives on reforms in ECOWAS"
- (c) Brochures on: IDEP Profile; Programme on Industrial Development in Africa; Programme on Population, Human Resources and Development in Africa; Basic Diploma Programme in Macro-Economic policy Analysis, Management and Planning.

Publications in the pipeline include preliminary outputs of IDEP's research and consultancy activities, and a training manual.

All publications are available in both English and French, and are widely disseminated among member States. Besides these publications, individual staff members have, to their credit, a wide range of published books, articles and monographs.

## PART C: EXPERIENCE AND PERFORMANCE

### Examples of Projects implemented by Institute for the benefit of member States

Study on the Rationalization of Intergovernmental Organizations in West Africa commissioned by ECOWAS Secretariat.



## Examples of Training Programmes

- (a) Basic Diploma, Industrial Development Specialization, Population, Human Resources and Development Specialization and Research Training Programmes have attracted over 370 participants between 1989 and 1992
- (b) Workshop on Policy Analysis and Policy Development for ECOWAS senior staff
- (c) Training Seminar on Project Feasibility Studies and Project Management for ECOWAS senior staff
- (d) Training course for ECOWAS Directors on analysis, appraisal and management of subregional projects, methodologies for undertaking financial and social cost/benefit analysis, and project management and monitoring techniques
- (e) Training Workshop on Macro-Economic Policy Analysis and Structural Adjustment for senior civil service officials in Gambia
- (f) EDI/IDEP seminar/workshop on Public Expenditure Programming
- (g) Seminar/Workshop on Parastatal Reform in Senegal
- (h) UNEDIL/IDEP Research Methodology Seminar/Workshop
- (i) AAS/IDEP Seminar/Workshop on Internal Conflicts, Peace and Development
- (j) Seminar/Workshop on Social Dimensions of Structural Adjustment Programmes in Senegal
- (k) ECA-PHSD/IDEP Seminar/Workshop on Public Enterprise
- (l) FAO-RPA/IDEP Seminar/Workshop on Dynamics of Rural Poverty in Africa
- (m) ECA-ATRCW/IDEP Seminar/Workshop on Informal Sector

## Advisory, consultancy and other services provided:

### Examples of Consultancy Project Reports:

- (a) The Management and Marketing of Fishery Products in North Africa, for the Joint ECA/FAO Agriculture Division at ECA.
- (b) The TAIBA Phosphates Company of Senegal, for the ECA-PHSD/IDEP Seminar on Public Enterprise Management in Africa
- (c) Women in the Informal Sector in Senegal, for the ECA-ATRCW/IDEP Seminar on African Women in the Informal Sector

## Research focus/capabilities

IDEP considers it of extreme importance that its research work should assist in identifying concrete solutions to the socio-economic development problems in member countries, and providing empirical inputs to its on-going training and consultancy programmes.

Much of the research work carried out in IDEP in the past has been through individual professional staff in the form of contributions to books, academic journals and presentations at conferences, seminars and workshops.

Within the framework of a UNDP-financed Preparatory Assistance Project, a feasibility study for establishing a strong Research Unit in IDEP has been completed and discussed at a regional workshop of experts. There was a general consensus on the importance of such a unit in IDEP to reinforce research in Africa on such vital themes as strategic planning, revival of growth, human development and economic cooperation and integration. IDEP is poised to boost its research capabilities through the establishment of this Unit.

## Public Awareness of the institution

News on IDEP's activities including seminars, workshops and meetings of its Governing Council are frequently carried by local newspapers and weekly journals including "West Africa".

IDEP's Newsletter and brochures which are widely circulated to member States also provide a source of publicity about IDEP and its activities.

During meetings of IDEP's Governing Council, interviews about IDEP with the Chairman of the Council, are often broadcast by Senegalese Radio and TV, thus contributing to the promotion of the institute's public awareness.

## African Institute for Higher Technical Training and Research (AIHTTR)

### Part A: General Information

Name of Institution	Acronyms
African Institute for Higher Technical Training and Research	AIHTTR

#### Translated name of institution

Institut Africaine de Formation Technique Supérieure et de Recherches

#### Headquarters:

City: Nairobi  
Country: Kenya  
P. O. Box 53763  
Telephone: 220060, 335661  
Telegraphic address: AIHTTR, Nairobi

**Year of establishment:** 1979, but commenced operations in 1980

#### Member States of institution

Burkina Faso, Burundi, Chad, Ghana, Kenya, Mali, Niger, Nigeria, Senegal, Uganda.

**Geographical coverage:** Africa region

**Working languages:** English and French

## Part B: Expertise and Facilities

### Corporate Objective

The objectives of the Institute are primarily to assist Member States in acquiring and developing adequate technical manpower capability for the transformation of African economies and exploitation of the region's natural resources for the benefit and prosperity of its people. The ultimate idea being to promote self-reliance in technical manpower.

### Nature and Focus of Activities

To achieve the above objectives, it is planned to organize the Institute into ten multi-disciplinary centres of activity in addition to a field unit. The nature of activities would include teaching, research and workshops designed in the following areas of specialization:

- (a) Agricultural engineering and food technology
- (b) Technical Teachers training
- (c) Electro-mechanical engineering
- (d) Industrial production
- (e) Electronics and communications technology
- (f) Energy resources and minerals exploitation
- (g) Chemical and non-metaliferous technologies
- (h) Environmental management and infrastructures
- (i) Business and social studies
- (j) Basic sciences

However, owing to lack of financial resources, it has not been possible for the Institute to recruit professional staff in these various fields of specialization.

### Profile of Expertise Available

Name	Qualifications	Position	Area of interest/focus
J. K. Kioko	B.A. : University of East Africa.	Officer-in-Charge	management, financial management and control, policy formulation.

### Facilities

In line with the recommendations of a major Consulting Firm on the proposed multi-disciplinary centres, the Institute is expected to be equipped with an array of facilities including laboratories, workshops, libraries and information and documentation services with adequate computers. However, the following facilities are currently available.

#### Computer Facilities

#### Main Frame Computer



## Other Facilities

Basic office equipment (Duplicator, photocopiers etc.)

## Publications

No major publications are made by the Institute owing to the Institute's present financial situation. However, the Institute publishes regular information about its objectives and plans.

## Part C: Experience and Performance

### Examples of Projects implemented by Institute for the benefit of member States

RAF/87/112- Preparatory Assistance Project( Institution building)

**Funding:** UNDP.....US\$ 345,385

**Results:** The objective of the project was to conduct feasibility studies on the establishment of four centres as priority out of the ten multi-disciplinary centres planned to be established at the Institute. The four centres concern: Agricultural Engineering and Food Technology; Electro-Mechanical Engineering; Electronics and Telecommunications; Technical Teachers Training; Studies on the first three areas have been completed. The four priority centres and the remaining six are planned for construction on a 100 hectare plot provided by the host country, Kenya. Architectural plans for the infrastructures are ready pending financial support for the actual construction work. The funding and completion of these infrastructures within the framework of a consolidated second phase project, are vital to the development of the Institute as a Centre of Excellence in its mandated field of activity, capable of serving the whole Africa region.

### Examples of Training Programmes

The Institute has conducted the following training programmes in the form of workshops for various participants from member States.

- (a) Education technology
- (b) Urban environmental monitoring and measurement techniques
- (c) Drinking water treatment and water works management
- (d) Managed maintenance in metallurgy/foundry industries
- (e) Industrial instrumentation
- (f) Training methodology for industrial instructors
- (g) Agricultural engineering technicians course
- (h) Development in training and continuous training in the area of new technologies

### Advisory, consultancy and other services provided:

In view of the uncompleted developmental plans of the Institute, in particular with regard to the funding and completion of the proposed fully-equipped multi-disciplinary centres, the Institute has, present, not been in a position to provide consultancy services for member States. However, an enormous potential for consultancy and advisory services exists with the funding and completion of the Institute's developmental process.

## **Research focus/capabilities**

Research is one of the Institute's areas of activities. The establishment of the institute's facility in this area is part of the overall developmental plans of the Institute requiring funding.

## **Public Awareness of the institution**

A great deal of interest has been shown by newspaper representatives to publish the activities of the Institute as evidenced from letters of enquiry received by the Institute, in addition to personal visits to it. Occasionally, matters of the Institute have been covered by the local media.

# **United Nations African Institute for the Prevention of Crime and Treatment of Offenders (UNAFRI)**

## **Part A: General Information**

### **Name of Institution**

United Nations African Institute For the Prevention of Crime and Treatment of Offenders

### **Acronyms**

UNAFRI

### **Translated name of institution**

Institut Africain de Nations Unies pour la prévention du crime et le traitement des délinquants

### **Headquarters:**

City: Kampala

Country: Uganda

P. O. Box 10590

Telephone: 221119, 285236

Fax: c/o UNDP 244801

Telex: 61255 UNDP UGA

**Year of establishment:** 1989

### **Member States of institution**

Burundi, Congo, Egypt, Equatorial Guinea, Gambia, Ghana, Guinea, Libyan Arab Jamahiriya, Malawi, Morocco, Mozambique, Niger, Nigeria, Rwanda, Senegal, Seychelles, Sierra Leone, Somalia, Sudan, Tanzania, Togo, Tunisia, Uganda, Zaire, Zambia, Zimbabwe.

**Geographical coverage:** Africa region

**Working languages:** English and French

## **Part B: Expertise and Facilities**

### **Corporate Objectives**

- (a) Assistance to member States in the formulation of policies and programmes for the prevention and control of crime and treatment of offenders in the context of overall national development planning, and for the prevention and control of juvenile crime and delinquency and the treatment of juvenile offenders
- (b) Promotion of innovative development approaches to crime prevention, criminal justice reforms and offender correction, in accordance with United Nations norms and guidelines, drawing upon African traditions and orientations as well as on new developments in the field
- (c) Promotion of common policies and joint actions of mutual concern, in crime prevention and control, including appropriate legal agreements and arrangements at the subregional and regional levels
- (d) Promotion of exchanges and transfer of knowledge, expertise and experience among governments, scholars, practitioners, researchers and organizations involved in the field

### **Nature and Focus of Activities**

- (a) Design and conduct of training programmes for different categories and levels of criminal justice and related personnel including policy makers, administrators, judges, prosecutors, lawyers, police and correctional officials, teachers, social workers and researchers
- (b) Training of Trainers through specially designed inter-disciplinary courses, workshops, seminars, fellowships, internship programmes and study tours
- (c) Undertaking of policy-oriented studies and research on priority problems of the Africa region
- (d) Provision of empirical data for policy formulation and decision making through information gathering on crime trends and their impact on development as well as on policies and programmes on crime prevention and criminal justice in Africa, and training of personnel in crime information gathering, storage and dissemination
- (e) Advisory services to governments upon request
- (f) Clearing house services

The Institute also promotes cooperation with similar institutions in Africa to undertake activities of common interest in their respective countries or subregion. For instance, the Institute has made contacts with various organizations in Africa to conduct a regional survey on crime, victimization and criminal justice in Africa. UNAFRI and the Arab Security Studies and Training Centre have also agreed to cooperate in activities of common interest in the North African subregion.

Proposals for joint activities have also been elaborated and recommended to the Organization of African Unity (OAU).

The Institute also organizes joint meetings of African Ministers of Justice and Interior to discuss joint actions in crime prevention and control.



## Profile of Expertise Available

Name	Qualifications	Position	Area of interest/focus
		Post of Director of Institute (Vacant since August 1992)	
Prof. Eric Paul Kibuka	Ph.D: Criminology	Deputy Director	Juvenile delinquency, theoretical and comparative criminology, penology (penal policy and practice).
Prof. Leonard P. Shaidi	Ph.D: Law	Training Adviser	Criminology, penology, administration of criminal justice, human rights, political economy of law.
Dr. N. Masamba Sita	Ph.D: Criminology (UCL Belgium)	Research Adviser	Criminology.
Mrs. Prisca K. G. Tibenderana	M.Sc.: Library and Information Science (Ahmadu Bello University)	Information and Documentation Adviser	Information science, library services.

## Facilities

### Library Facilities

Information and Documentation Centre and a library stock of specialized materials on crime prevention and control in Africa.

### Computer Facilities

- (a) 1 NCR 3445 Computer
- (b) 1 IBM Personal Computer
- (c) 1 Toshiba Laptop PC
- (d). 2 Laser jet printers

### Training Facilities

- (a) 8 Lecture rooms/classrooms
- (b) Canteen facilities

### Other Facilities

- (a) 13 Residential houses
- (b) Office equipment(photocopiers, duplicating machines, fax machine etc)

## Publications

- (a) UNAFRI Newsletter (semi-annual publication)
- (b) UNAFRI Training Seminars/Workshop/Conference/Research Reports
- (c) UNAFRI Journal

## **Part C: Experience and Performance**

### **Examples of Projects implemented by Institute for the benefit of member States**

RAF/86/048- UNAFRI (institution building project)

**Funding:** UNDP.....US\$1,925,853

Institutional support project covering the initial work programmes of the institute with respect to management and administration, training and human resource development, comparative research and policy development, information and documentation, and advisory services, within the period 1990-1993.

Training programmes conducted under this project for a total of 140 crime prevention/control, criminal justice administration and offender correction officials from various African countries include:

- (a) Training seminar on the prevention and correction of juvenile delinquency in the context of development;
- (b) Two Training workshops on the survey of crime, victimization, and justice administration in Africa;
- (c) Training seminar on combatting economic and organized crime in Africa;
- (d) Seminar on planning for crime prevention and criminal justice in the context of development;
- (e) Seminar on victims of crime and the prevention of victimization;
- (f) Workshop on reform of penal laws and procedures;
- (g) Workshop on training needs and future training requirements of African countries for heads of institutions of crime prevention and criminal justice.

### **Subject to availability of funds, training programmes planned for the future include:**

- (a) Training seminar on practical implementation and application of selected UN Instruments in crime prevention and criminal justice.
- (b) Training workshop on law, women and crime in Africa.
- (c) Training course on management of prisons and prisoners in Africa.

### **Advisory, consultancy and other services provided:**

The Institute provides advisory services upon request by countries of the Africa region, on the development and adoption of effective measures to combat criminality, improve the quality of services provided to offenders in custodial institutions and the observance of human rights in the administration of justice, in accordance with United Nations norms, guidelines and standards in the field.

### **Research focus/capabilities**

The Institute's research activities are aimed at providing a sound empirical basis for the formulation of effective policies and programmes to minimize crime and delinquency in African countries. The Institute has undertaken an assessment of the requirements of African governments and elaborated a framework, in terms of a survey type research tools, for use by them on a trial basis, regarding the collection of reliable data in the field.

The Institute is also interested in regional-based research activities which, at present, include studies on crime, victimization and criminal justice, the harmful impact of new forms and dimensions of criminality, criminal law procedures and appropriate reforms, and the interrelationship between development and criminality as a basis for policy formulation. Examples of Research Projects:

- (a) Pilot Survey on Crime, Victimization and Criminal Justice in Africa
- (b) Survey on Reform of Penal Law and Procedures in African Countries
- (c) Harmful Impact of New Forms and Dimensions of Criminality
- (e) Survey Opportunities for Training in Criminal Justice Administration in Africa
- (f) Action Research on Relieving of Congestion from Prisons and Recidivism, to be conducted for the whole Africa region. (This is a very important research project considering the increasing requests by African countries to UNAFRI for advice in this area.)

### **Public Awareness of the institution**

UNAFRI appears in many publications on UN regional institutes for crime prevention and control and directories of international organizations and crime prevention international institutes.

## **Regional Centre for Services in Surveying, Mapping and Remote Sensing (RCSSMRS)**

### **Part A: General Information**

#### **Name of Institution**

#### **Acronyms**

Regional Centre for Services in Surveying Mapping, and Remote Sensing      **RCSSMRS**

#### **Translated name of institution**

Centre Régional de Topographie, Cartographie et Télédétection

#### **Headquarters:**

City: Nairobi  
 Country: Kenya  
 P.O. Box 18118  
 Telephone: 254-2-803320/9  
 Fax: 254-2-802767  
 Telex: 25285 KEREGETS KE  
 Telegraphic address: REGSURVEYS

**Year of establishment:** 1974/75

#### **Member States of institution**

Botswana, Comoros, Ethiopia, Kenya, Lesotho, Malawi, Seychelles, Somalia, Sudan, Tanzania, Swaziland, Uganda, Zambia.



**Geographical coverage:** Eastern and Southern Africa subregion

**Working languages:** English

## **Part B: Expertise and Facilities**

### **Corporate Objective**

- (a) Provide natural resource and environmental data through the use of such technologies as: surveying, mapping and remote sensing, geographic information systems including in particular, but not limited to, aerial photography, photogrammetry and orthophotomapping, photointerpretation, computerized data processing, zero order geodetic survey, multi-colour printing, and calibration, maintenance of surveying and mapping equipment
- (b) Provide training for nationals of member States in all fields mentioned in (a) above
- (c) Carry out studies and research in surveying, mapping, remote sensing and geographic information systems, and make available to member States the results of the studies, researches and tests carried out
- (d) Provide advisory services to member states, upon request, on problems relating to natural resource and environment information

### **Nature and Focus of Activities**

#### **Mapping**

- (a) Land surveying with emphasis on land information systems
- (b) Geodetic surveys
- (c) Aerial photography and photointerpretation
- (d) Photogrammetry mapping
- (e) Cartography
- (f) Map production
- (g) Hydrographical charting

#### **Remote Sensing and G.I.S**

- (a) Data archiving, retrieval and user services
- (b) Earth resources satellite data receiving and processing
- (c) Cartographic applications of remote sensing
- (d) Geographic information systems
- (e) Resource assessment using remote sensing techniques

#### **General Technical Services**

- (a) Maintenance and repair of scientific equipment
- (b) Photolaboratory processing
- (c) Computer laboratory service
- (d) Library and central record services

## Profile of Expertise Available

Name	Qualifications	Position	Area of interest/focus
Asfaw Fanta	BSc: Photogrammetry Engineering, MSc: Photogrammetry Engineering.	Director General	Photogrammetry, remote sensing
Prof. Simon L. P. Ndyetabula	B.Sc.: Surveying and Photogrammetry M.Sc.: Engineering, M.Sc.: Geodesy D.Phil. Professional Qualifications: C.L.S. (E.A) - Certified Land Surveyor (East Africa) F.I.S.T - Fellow, Institution of Surveyors of Tanzania	Director of Technical Coordination	Land Surveying, Photogrammetry, Geodesy, Land law and registration, engineering surveying, geodetic astronomy, geodynamics, adjustment analysis, differential geometry, marine and satellite geodesy, gravimetric and gradiometric geodesy.
Luka Atonya Isavwa	B.Sc.: Botany, Zoology, Geography Diploma in Rural Survey	Director of Remote Sensing	Remote sensing
Martins W. L. Chodota	BSc. Engineering MSc.	Senior Surveyor and Head of Department of Mapping	Mapping, Geodesy, Aerial Photography
Zein A .O. Sharif	Bsc. (Geography) Post Graduate Diploma (Topographic Science)	Chief Cartographer	Cartography
Guy Neuville	DESS Paris VI, Remote Sensing Specialization Certificate, Diploma Engineering ( Land Surveys) Masters Degree in Law	Remote Sensing Adviser	Remote Sensing, Programme planning, Data processing.
John B. Alusa	Master of Science in Remote Sensing and Thematic Geography, Post Graduate Diploma in Geography, Bachelor of Education	Imagery Analyst	Photogrammetry, Geology, Ecology, Cartography, Remote Sensing, Computer Programming
Wilber K. Otichilo	M.Sc. (Biology of Conservation and Ecology), B.Sc. (Biological Sciences), Diploma (Resource Planning and Management, Various Certificates in Remote Sensing Techniques and Applications, Agricultural Project Analysis for Developing Economies, Ecosystem Management, Systems Administration and Geographic Information Systems.	Chief Ecologist, Department of Resource Surveys and Remote Sensing	Resource surveys and Remote sensing.
Eric Breton	Survey Engineers Diploma, Diploma in Remote Sensing Studies	French Remote Sensing Expert	Remote Sensing, Computer Science
F. B. Sambo	Technologist Diploma (Cartography), Certificate in Cartography, Advanced Certificate in Bookkeeping	Assistant Cartographer	Cartography
S. Muya	Technologist Diploma (Cartography), Ordinary Diploma in Cartography and Air Survey	Assistant Cartographer	Cartography
E. Luvita	Printing Production Management Course, Machine Printing Course, City and Guilds, London, Machine Printing.	Assistant Lithographer	Lithography
C. Onyango	Cartographic Stage III Certificate, Cartographic Stage II Certificate.	Cartographic Assistant	Cartography
Steve N. Mwaura	Training in Repair and Maintenance of Optical surveying and Laboratory instruments.	Engineering Technician	Repair and maintenance of optical surveying and laboratory instruments: theodolites, levels, photogrammetry instruments, printing machines, compasses, microscopes and balances.
John N. Michuki	Training in Repair and Maintenance of Optical surveying and Laboratory instruments	Engineering Technician	Repair and maintenance of optical surveying and laboratory instruments: theodolites, levels, photogrammetry instruments, printing machines, compasses, microscopes and balances.

## Facilities

### Library Facilities

The Centre has specialized books, publications and periodicals covering all the specialized services carried out by it. Major up-to-date journals and books are available.

### Computer Facilities

- (a) Sun sparc server 470 running on sun view station acquired through the cooperation between European Space Agency (ESA) and the Centre
- (b) Sun sparc 1+ station acquired through USAID assistance
- (c) IBM compatible personal computers with the assistance of the Japanese Trust Funding through FAO
- (d) Multiscope and Didactum personal computers acquired through the French Technical Assistance
- (e) Terra Mar IBM compatible computers acquired through USAID assistance
- (f) General purpose computer HP3000 with twenty work stations

In addition to the above computers, there are a number of software packages which include ARC/INFO, IDRISI, ILWIS, IDA, ERDAS, DIDACTUM, MULTISCOPE, TERRA MAR and SPANS, EXABYTE, CD-ROM, etc.

### Laboratories

There are laboratories for the following activities:

- (a) Remote Sensing
- (b) Early Warning Systems
- (c) Aerial Photography Processing
- (d) Cartography
- (e) Photolaboratory Processing. The Photolaboratory is equipped with: Colenta automatic paper (40" ciba) processor; Colour Enlargers (10" and 4" negative carrier); Black and White Enlarger; Dryer Cabinets; Film Processor; Vacuum Contact Frame; Macbeth Densitometers and; Reflex Cameras.

### Workshops

There is well-equipped workshop for repair, maintenance and service of optical/mechanical and electric equipment.

### Major Equipment Available:

#### Mapping Equipment:

Magnavox Doppler Receivers; Mekometer 600; Geodimeter 600; Distomat D1000; Precision Theodolites and Levels; Total Station Instruments; Aerial Survey Camera RC10; Field Vehicles and Camping Gear; Large Format Contact Printing Frame with Micro-Processor; A3 Offset Printing Machine; Electronic Desk Top Publisher.



## Remote Sensing and GIS Equipment:

Radiometers; Zoom Stereoscope; Reflecting Projectors; Additive Colour Viewers; Digitizer; Plotters; Zoom Transferscope; DIANA (Direct Information Access Network in Africa) Facility; Microwave Link between Kenya Meteorological Station and RCSSMRS.

## General Technical Equipment:

The equipment for maintenance and calibration of optical and electronic instruments include: Optical and Electronic Calibration; Benches; Lathe Machine; Oscilloscopes; Signal Generators; Multimeters; Transistor Testers; Spectrum Analyzers; Repair Tool Kits; Various Digital Electronics and Micro-processor Training Kits and Slide Projectors.

## Other Facilities

The Centre also has data bases for remote sensing. This data includes Landsat MSS as well as Landsat TM. It also holds 70mm NASA collection of MSS from Landsat numbers 1-2. AVHRR data is also available over the region served by the Centre as well as maps and aerial photographs of various parts of the subregion.

## Publications

Apart from occasional papers presented at conferences and seminars by individual members of staff of the Centre as well as project reports, the main publications of the Centre so far are:

- (a) Report on the Results of the African Doppler Survey (ADOS)
- (b) Earth Resources Mapping in Africa: quarterly journal of the activities of RCSSMRS
- (c) Resource and Image Maps for various countries in Eastern and Southern Africa subregion
- (d) Technical Reports on the various projects carried out in member countries

## Part C: Experience and Performance

### Examples of Projects implemented by Institute for the benefit of member States

Project/ Beneficiary Country	Target Beneficiaries	Location(s)	Objectives	Results Achieved	Relevance and Impact of Project	Funding
(a) Provision of Control by Doppler Survey:						
(i) Kenya	Department of Survey of Kenya and practising surveyors involved in land demarcation.	Coastal region of Kenya.	Provision of geodetic control for cadastral surveys that assist in land administration.	A network of positioned points with a list of position coordinates.	Results facilitated the planning, administration and land allocation to land developers.	Government of Kenya.
(ii) Tanzania	Division of Surveys and Mapping of Tanzania and private surveyors involved in land sub-division.	Arusha, Mara and Mtwara regions of Tanzania.	Provision of networks of control points to facilitate the preparation of topographical maps for the regions.	Networks of about 100 positioned points with a list of position coordinates.	Results facilitate and promote rapid production of topographic and thematic maps for the three regions.	Government of Tanzania.

Project/ Beneficiary Country	Target Beneficiaries	Location(s)	Objectives	Results Achieved	Relevance and Impact of Project	Funding
<b>(b) Feasibility Studies for Oil Development:</b>						
(i) Tanzania	Ministries of Natural Resources, Energy and Power.	Eastern, Central and Northern parts of Tanzania.	Feasibility study for the optimum route location for the proposed Oil Pipeline in the country. Survey techniques were used.	A report was submitted on the cost/benefit analysis of the selected route locations to the project consultants for the pipeline construction.		Government of Tanzania.
(ii) Uganda	Ministry of Energy.	Western Rift Valley of Uganda.	Feasibility study for the establishment of geodetic control network for geophysical surveys; whereby accurate locations of the experimentation points were needed during the feasibility studies for oil exploitation in the area.	A network of points were identified and a report containing estimates for the establishment of the geodetic control network was prepared.		RCSSMRS.
<b>(c) Evaluation of Government Mapping Agencies:</b>						
(i) Tanzania	Division of Surveys and Mapping.	Divisional Headquarters in Dar- es-Salaam.	Evaluate the viability and capacity of the surveying and mapping division of the Tanzania Government.	A report was compiled and submitted to the Government of Tanzania with recommendations on how the division could be rehabilitated and modernized.	The division is still using outdated equipment in the production of maps. The process is time consuming and extremely expensive. The Tanzania government's capacity to generate maps in a timely manner is greatly hampered.	RCSSMRS.
(ii) Uganda	Department of Surveys and Mapping.	Departmental Headquarters in Entebbe.	The purpose was similar to that of Uganda.	A report was compiled and submitted to the Uganda government.	The problems affecting the Department were similar to those of Tanzania.	RCSSMRS.
<b>(d) Aerial Photography for Resource and Topographical Mapping:</b>						
(i) Comoros	Government of Comoros		Provision of aerial photography covering all Comoro Islands at scales 1:15,000 to 1:30,000.	Aerial photography coverage of all islands of Comoro at these scales. Also infrared photography coverage was achieved.	The photography will assist in the mapping and management of the resources of the islands.	World Bank.
(ii) Kenya	Government of Kenya		Provision of aerial photography for selected targets in Kenya for the planning of land consolidation and management.	Sets of photographs for the selected areas were submitted to the Government of Kenya.		Government of Kenya.

Project/ Beneficiary Country	Target Beneficiaries	Location(s)	Objectives	Results Achieved	Relevance and Impact of Project	Funding
(iii) Tanzania	Government of Tanzania	Sao Hill in Southern Tanzania and Shinyanga region.	To provide aerial photography for the forested area of Sao Hill at scale of 1/50,000. The photography was to be used for resource mapping and environment monitoring.	About 75% of the project work was completed and the sets of aerial photographs submitted to the Government of Tanzania. The remaining part is to be completed by the end of 1993.	Shinyanga region is to be mapped at scale 1:50,000 and Forestry in Sao Hill is to be monitored and expanded.	Government of Tanzania.
(iv) Uganda	Government of Uganda	Seven towns in Uganda.	Provision of aerial photography for seven towns in which are to be used for production of township maps for these towns.	Sets of aerial photographs for the seven towns were submitted to the Government of Uganda.		Government of Uganda.
<b>(e) Mapping for Resource and Environmental Investigations:</b>						
(i) Botswana	Government of Botswana	Gaborone Area	Production of the image map of Gaborone area using TM Satellite data.	An image map of Gaborone and its environs was produced at scale 1:250,000, and submitted to the Botswana Government.		RCSSMRS.
(ii) Kenya	Government of Kenya	Nairobi Area	An image map similar to that produced for Gaborone was to be produced for Nairobi.	An image map of Nairobi and its environs was produced at scale 1:100,000, and submitted to the Government of Kenya.		RCSSMRS.
(iii) Lesotho	Government of Lesotho	Whole country of Lesotho	Production of an image map of the whole country of Lesotho using remote sensing satellite data.	An image map of Lesotho at scale 1:250,000 was produced and submitted to the Government of Lesotho.		USAID and RCSSMRS.
(iv) Sudan (SERISS Crop Yield Assessment Project)	The Government and people of Sudan as well as scientists at the local level	Sudan, Kordofan and Darfur areas	To produce crop yields estimates, produce maps using satellite imagery, and develop Geographic Information Systems facilities.	Reports outlining problems, methodology and crop estimates.	Contributed to estimation of crop yields for food security; the development of local expertise in the field of image interpretation and use of Area Frame Sampling, and the development of GIS at the Sudan National Remote Sensing Centre.	USAID



Project/ Beneficiary Country	Target Beneficiaries	Location(s)	Objectives	Results Achieved	Relevance and Impact of Project	Funding
(v) Tanzania (Research and Pilot project entitled "Vegetation Mapping of Tanzania")	Government of Tanzania (Forestry Department) and Resource assessment scientists	Tanzania	Demonstrate use of remote sensing in Vegetation cover mapping; produce land cover map of Tanzania at scale 1:2m. indicating location of forest areas.	Vegetation and Cover Map of Tanzania at scale 1:2m. as well as Project Report.	Necessity to depict the location of forest areas and land use patterns for planning purposes. The project's success led to another project to map a smaller area of Dar-es-Salaam and environs at scale 1:250,000. The successful results of both projects have earned Tanzania a World Bank funded project to map the country at scale 1:250,000 using satellite imagery.	RCSSMRS using funds provided through USAID technical assistance to the Centre.
Mara Region Land Use Mapping	Regional government departments of the Government of Tanzania	Mara region, Tanzania	Produce a land use map of the region. Demonstrate the use of satellite data for mapping.	One land use map has been produced for part of the region.	The map is to be used by Regional Development Directorate for planning purposes. Appropriate personnel of the region have been trained in the use of remote sensing techniques.	Government of Tanzania.
(vi) Uganda (Environmental Mapping of Uganda)	Government of Uganda	Uganda	Development of two mosaics for Uganda, study of land use changes using satellite imagery of 1972-74 and 1984.	Two mosaics of Uganda.	Establishment of land use categories and changes. Use of the mosaics for planning and management.	UNEP.
Mbira and Mt. Elgon Forest Change Detection- Research and Pilot Project	Ministries of Agriculture and Environment Protection of the Government of Uganda.	Uganda's Mabira and Mt. Elgon forests.	Land use mapping. Forest area change detection and application of GIS.	Digital maps showing forest encroachment of the agricultural activities in the areas of study.	Forestry resource planning and management.	RCSSMRS.
(vii) Zambia (Zambia Soil Survey using Satellite imagery)	Government of Zambia, World Bank	The three districts in Northern Zambia.	Produce soil maps as well as land capability maps of the three districts. Mapping for investment in agricultural production.	Image maps for soil categories; Image maps of land capability.	Played an important role in providing maps for investment in agricultural production.	Government of Zambia in collaboration with NORAD.

Project/ Beneficiary Country	Target Beneficiaries	Location(s)	Objectives	Results Achieved	Relevance and Impact of Project	Funding
(viii) OAU	OAU Member States		RCSSMRS was commissioned by the OAU/IBAR (Inter-African Bureau for Animal Resource) to produce maps on cattle distribution in Africa using conventional cartographic techniques.	Three maps at scale 1:1m were produced showing: cattle distribution and tsetse infested areas; cattle distribution and degree of desertification. 500 copies of the map were produced.		OAU

### Pipeline Projects awaiting funding and implementation

Plans are underway to undertake the following projects in the near future:

- (i) Botswana:  
A national atlas of Botswana is to be prepared and published. The project is to be executed by RCSSMRS in collaboration with the Botswana Government. It awaits funding which is to be solicited from donors.
- (ii) Lake Victoria Catchment Area:  
The project is to be undertaken for the Hydromet Survey organization and is designed to provide Environmental Data Base for the area. An input of US\$ 1.2m is anticipated. The project has been submitted to prospective donors for consideration of funding.
- (iii) Swaziland:  
The Kingdom of Swaziland has requested the Centre to carry out the revision of the country's image map. The Centre is planning to carry out the project with the collaboration of the French Government.
- (iv) Tanzania:  
A project to produce Land Capability maps of the Mara region in Tanzania is to be undertaken at a cost of about US\$50,000. It is to be funded by the Government of Tanzania. Arrangements have been finalized for embarking on its execution.

### Examples of Training Programmes provided:

For the last seven years, RCSSMRS conducted courses on:

- (a) Maintenance of scientific equipment- about 200 participants.
- (b) Remote Sensing and Geographical Information Systems - 805 participants.
- (c) Geodesy and aerial photography - 110 participant.
- (d) Cartography and map production - 70 participants, giving a total of 1,185 trainees. The trainees are service officers in the governments of member States.

## **Advisory, consultancy and other services provided:**

### **Advisory services:**

RCSSMRS provided advisory services to the Survey of Kenya during the revision of the 1:250,000 scale map sheets of Narok and Mandera in Kenya.

### **Consultancy services:**

Upon request by the member States, the Centre is required to provide consultancy on the establishment of National Remote Sensing Units in member States. In the past, the Centre carried out this activity for Tanzania, Malawi and Zambia. Consultative discussions have also been carried out on how to strengthen the Units in Kenya, Zimbabwe and Sudan.

In collaboration with UNEP and UNITAR, the Centre assisted the Government of Uganda to establish its national remote sensing unit.

RCSSMRS was mandated by the member States to carry out a study of the existing conventional cadastral surveying procedures in eastern and southern Africa, and recommend methods of improving and speeding up the production of the cadastral survey systems in the subregion. The study was completed and recommendations passed to the member States. Funding is required to implement some of the recommendations.

## **Research focus/capabilities**

The Centre in collaboration with ICIPE conducted research on the use of SPOT data for assessing and evaluating tsetse fly habitat in Nguruman area of Narok District in Kenya. This was applied research on the establishment of ways for pest control.

Manual of Photomapping was compiled from research carried out to test the viability of the use of satellite data for the production and revision of topographic and thematic maps. The manual is being now used by member States to carry out rapid revision of their maps. The project was funded by IDRC.

A research project on environmental monitoring of Lakes Nakuru, Elementaita and Naivasha is being carried out jointly by RCSSMRS, Aquatar SPA of Italy and EOS of U.K. The project is being funded by EC and expected to last for 28 months.

## **Awards for work and excellence**

Gold Mercury International Award

## **Public Awareness of the institution**

RCSSMRS has close cooperation with Space Agencies in North America, Europe and Asia in the activities related to remote sensing and mapping. Such agencies are ESA, NASA, CNES, etc.

In the past, RCSSMRS has had close relationship with UN agencies notably UNEP, UNITAR, UNESCO, UNDP as well as with USAID in project implementation and training.



Personnel from Africa and Middle East who are working in natural resources and environment fields have received training at RCSSMRS in areas related to mapping, remote sensing, GIS, and maintenance of scientific equipment. Their appreciation of RCSSMRS's quality of training has been noted.

RCSSMRS cooperates and carries out joint ventures with academic institutions in Africa and outside Africa. The ventures have been in the form of pilot training projects and research.

The awareness by the public of the RCSSMRS role in the development of African countries is promoted by its strong links with African national ministries and agencies dealing with activities of mapping, remote sensing and geographic information systems in the respective countries.

Finally, RCSSMRS is recognized internationally as a Centre of excellence in the area of Resource and Environment Information in Africa.

## **African Regional Organization for Standardization (ARSO)**

### **Part A: General Information**

#### **Name of Institution**

African Regional Organization for Standardization

#### **Acronyms**

ARSO

#### **Translated name of institution**

Organization Régionale Africaine de Normalization

ORAN

#### **Headquarters:**

City: Nairobi

Country: Kenya

P. O. Box 57363

Telephone: 224561, 330882, 330895

Fax: 218972

Telex: 22097 ARSO

**Year of establishment:** 1977, but commenced operations in 1979

#### **Member States of institution**

Burkina Faso, Cameroon, Cotê d'Ivoire, Egypt, Ethiopia, Ghana, Guinea Bissau, Guinea, Kenya, Liberia, Libyan Arab Jamahiriya, Madagascar, Malawi, Mauritius, Niger, Nigeria, Senegal, Sudan, Tanzania, Togo, Tunisia, Uganda, Zaire, Zambia, Zimbabwe.

**Geographical coverage:** Regional Africa

**Working languages:** English and French

## Part B: Expertise and Facilities

### Corporate Objective

- (a) To promote standardization activities in Africa
- (b) To elaborate regional standards
- (c) To promote social, industrial and economic development and provide consumer protection and human safety by advocating and establishing activities concerning standardization in Africa, and
- (d) To promote the harmonization of the views of its members and their contribution and participation at the international level, in the field of standardization

### Nature and Focus of Activities

- (a) Standards Development:  
ARSO has the capacity and structures to develop regional standards for products of interest to Africa. It has established nine ARSO Technical Committees (TC) to develop regional standards covering the following fields:

Technical Committee	Field
ARSO TC 1	Basic and General Standards
ARSO TC 2	Agriculture and Food Products
ARSO TC 3	Building and Civil Engineering
ARSO TC 4	Mechanical Engineering and Metallurgy
ARSO TC 5	Chemistry and Chemical Engineering
ARSO TC 6	Electrotechnology
ARSO TC 7	Textiles
ARSO TC 8	Transport and Communications
ARSO TC 9	Environmental Protection and Pollution Control

- (b) ARSO Certification System (ARSO-CERT):  
ARSO has developed a regional product certification system known as the ARSO Certification System (ARSO-CERT), to promote and certify the quality of products conforming to African Regional Standards (ARS). An ARSO Mark has been established for use by producers and traders on products conforming to ARS.
- (c) Quality Assurance:  
Within the framework of ARSO-CERT, ARSO has instituted the machinery for quality control and quality assurance activities to monitor the quality levels of products, processes and systems.
- (d) Metrology and Testing:  
ARSO has developed and established the ARSO Network of Testing, Metrology and Instrumentation Centres in Africa (ARSO-TMICNET) to foster the sharing and use of laboratory facilities available in member States for calibration, testing and instrumentation purposes.
- (e) Information Services:  
ARSO a Network of Documentation and Information Systems (ARSO-DISNET) on standards and technical regulations by linking the national standards information centres of member States to ARSO-DIS. Information exchange is conducted within the framework of ARSO-DISNET, through hard copies, diskettes and electronically by networking the computer facilities of member States with ARSO main computer.

## Profile of Expertise Available

Name	Qualifications	Position	Area of interest/focus
Zawdu Felleke	MSc	Secretary General	Engineering, management, standardization, quality control, certification.
Dr. G. Y. Ahlijah	PhD		Standardization, quality control, certification, testing.
I. M. Adinnu	BSc		Standardization, quality control, certification.
J.O. Manyala	BSc		Metrology, standardization.
M. Ngola	MEd		Documentation, retrieval techniques, indexing.
S. Gikunju	B.Comm		Administration, accounting
E. Chonelwa	Cert.		Documentation, information retrieval.

## Experts available at ARSO member States

In addition to the above members of staff, over 330 experts in standardization, quality control, certification and metrology are available in member States for engagement as ARSO experts.

## Facilities

### Library Facilities

ARSO has established the ARSO Documentation and Information System (ARSO-DIS) at its Headquarters in Nairobi, where a large collection of standards of member States, ARS, international standards, technical publications, guides, reports and monographs are available. Various computerized databases have been created at the ARSO-DIS and are accessible to interested parties.

### Computer Facilities

ARSO has computer facilities for word processing, data processing, desktop publishing and electronic communications. For these purposes, it employs a Local Area Network (LAN) of computers at its Headquarters in Nairobi.

### Other Facilities

#### Telematics Facility

ARSO has established and is operating a telematics facility for electronic exchange of data and information by E-mail and computer mediated communication systems. ARSO-DIS has become a node which provides E-mail facility to cover 30 points of technological and developmental institutions in Kenya and the neighbouring States. The node has one point in the United States of America.

## Major Equipment Available

- (a) File Server PC serving a LAN of 8 PCs
- (b) Wang Office Information System (OIC) with workstations
- (c) Daisy Matrix printers
- (d) Dot Matrix printers



- (e) Postscript laser printer
- (f) Optical scanner
- (g) Microfiche reader/printer
- (i) Overhead projector
- (j) Communications modem
- (i) Video and Audio Cassette players
- (k) Video Camera Recorder
- (l) Colour Television monitor
- (m) Office equipment such as fax and telex machines, and photocopiers

## **Publications**

The publications are in both English and French.

## **Guides and Manuals**

- (a) ARSO Constitution and Rules of Procedure
- (b) Constitution of the ARSO Network of Documentation and Information Systems (ARSO-DISNET)
- (c) ARSO-DISNET Guides:
  - Volume I: Why establish an information and documentation centre within a National Standards Body
  - Volume II: How to design and organize an information and documentation centre within a National Standards Body
  - Volume III: Technical Aspects of work within an information and documentation centre of a National Standards Body
- (d) ARSO Network of Testing, Metrology and Instrumentation Centres (ARSO-TMICNET) Constitution and Rules
- (e) Constitution, Rules and Guide of ARSO Certification System (ARSO-CERT)
- (f) Guide on the procedure for assessment and accreditation of a National Standards Body for membership of ARSO-CERT.
- (g) Standardization: An introductory guide
- (h) Establishment and Operations of a National Standards Body
- (i) Benefits of Standardization
- (j) The role of metrology in development
- (k) Metrology for Development
- (l) Establishment of a National Metrology Service

## **Directories and Bibliographies**

- (a) African Bibliography No.1: Standards on Agriculture and Food Products
- (b) African Bibliography No.2: Standards on Building and Civil Engineering
- (c) African Bibliography No.3: Standards on Mechanical Engineering and Metallurgy
- (d) African Bibliography No.4: Standards on Chemistry and Chemical Engineering
- (e) Directory of National Standards Bodies (NSBs) of ARSO member States
- (f) Directory of African Experts on Standardization, Quality Control, Certification and Metrology.

## **Workshop Reports and Papers**

Reports of, and Technical Papers presented at, various workshops on: Standards and Specifications for Local Building Materials; Standardization of Agricultural Products and Environmental Management; Chemical Products; Mechanical Engineering; Metrology; textile products; electrotechnology; certification; and ARSO Certification System.

#### Miscellaneous Publications

- (a) ARSO Annual Report
- (b) ARSO Newsletter
- (c) ARSO Catalogue of African Regional Standards (ARS)

## Part C: Experience and Performance

### Examples of Projects implemented by Institute for the benefit of member States

Project	Target Beneficiaries	Location	Objectives	Results Achieved	Funding
(a) RAF/87/056 - Development of Metrology Activities in the Africa Region (Capacity Building Project)	ARSO member States	ARSO Headquarters	<ul style="list-style-type: none"> <li>- Promote metrology activities and practices in Africa</li> <li>- Harmonize the metrology standards and regulations in African countries</li> <li>- Promote social, industrial and economic development and ensure equity in trade, consumer protection, human safety by establishing modern metrology and related practices in Africa</li> <li>- Coordinate the views of member States and strengthen the contribution and participation of African countries in the policy and technical work of international organizations concerned with metrology.</li> </ul>	<ul style="list-style-type: none"> <li>- 43 African Regional Standards on metrology were developed</li> <li>- 2 technical guides on metrology and a publicity brochure were issued</li> <li>- Technical advisory services on the initiation and development of metrology services were provided to fourteen member States</li> <li>- 2 regional training workshops on metrology were conducted for a total of forty-eight technical personnel of member States</li> <li>- The constitution, rules and procedures governing the establishment and operation of the ARSO Network of Metrology, Testing and Instrumentation Centres in Africa were published</li> <li>- ARSO-TMICNET was formally launched</li> <li>- Computerized data-bases on metrology and test facilities of member States including technical specifications and cost of metrology equipment were developed.</li> </ul>	<p>The project costing US\$0.33m was funded by UNDP</p> <p>Phase II of the project costing US\$1.65m has been submitted to UNDP for consideration of funding.</p>

Project	Target Beneficiaries	Location	Objectives	Results Achieved	Funding
(b) RAF/87/065 - Development of Standardization Activities in the Africa Region (Capacity-building project).	ARSO member States	ARSO Headquarters	<ul style="list-style-type: none"> <li>-Elaboration of regional standards for Africa</li> <li>-Promotion of standardization, quality control, certification and metrology activities in Africa</li> <li>-Training of technical personnel</li> <li>-Development of a regional certification system</li> <li>-Dissemination of information on standards.</li> </ul>	<ul style="list-style-type: none"> <li>-322 Draft African Regional Standards (DARS) were elaborated out of which 208 African Regional Standards (ARS) were printed and issued</li> <li>-10 promotional literature and guides were developed, printed and issued</li> <li>-45 expert missions were fielded to 19 member States</li> <li>-135 technical personnel of member States were trained in seven organized workshops</li> <li>-11 publications on workshop reports and resource material were produced and issued</li> <li>-A regional product certification system known as ARSO Certification System (ARSO-CERT) was established and launched</li> <li>-5 specific computerized data bases containing a total of 3523 entries on standardization and related subjects were created</li> <li>-The ARSO Network of Documentation and Information Systems (ARSO-DISNET) on standards and technical regulations in Africa was established and became operational.</li> </ul>	<p>UNDP to the tune of US\$ 1.3 m.</p> <p>Phase II of the project amounting to US\$ 2.76m is under consideration by UNDP.</p>



Project	Target Beneficiaries	Location	Objectives	Results Achieved	Funding
(c) IDRC (3-P-89-025)- Development of ARSO Network of Documentation and Information System (ARSO-DISNET) - (Capacity-Building project)	-Documentalists and librarians in ARSO- DISNET Centres -National Standards Bodies of member States -Business community, government departments, researchers, technologists, consumers	ARSO Headquarters	-Establish National Documentation and Information Centres -Strengthen the capability of the existing National Documentation and Information Centres -Create regional databases on standards, technical regulations, quality control and certification -Promote exchange of information on national standards and technical regulations in African countries -Experiment with on- line data access and telematics communications between ARSO- DISNET members and related African regional organizations -Train staff from member States on management of standards information centres, database development and telematics communication systems.	-ARSO-DISNET was developed -Active exchange of information between ARSO-DIS and information systems in ARSO member States was fostered -Over 20 information products were published -Training programmes were organized for a total of 62 Documentation and Information Officers from member States.	IDRC of Canada for US\$ 132,510. A proposal for a subsequent phase of the project amounting to US\$ 136,000 is under consideration by IDRC.

### Examples of Training programmes:

ARSO has provided training to 527 technical personnel of member States through regional training workshops and fellowships covering the following areas: standardization; quality control and quality assurance; certification; metrology; and Documentation and information systems computerized database creation and management including electronic mail (e-mail).

### Advisory, consultancy and other services provided:

Technical Advisory services:

ARSO has and continues to provide technical advisory services to member States on:

- Establishment and operation of National Standards Bodies (NSBs)
- Development of standards in specific economic fields and sectors
- Establishment of national metrology services
- Operation of quality assurance and national certification systems
- Establishment and operation of national standards documentation and information systems

### **Consultancy Services:**

ARSO has not been contracted directly for specific consultancy assignments. However, it has carried out through its members of staff and ARSO experts, consultancies covering standardization, certification, metrology and documentation activities at both national and regional levels. ARSO has the capacity and capability to render consultancy services or undertake subcontracts in its areas of activity and competence.

### **Research focus/capabilities**

ARSO undertakes library and desk research work leading to the development of regional standards. Certain aspects of applied research are carried out by its member bodies the results of which are made use of by ARSO. The desk and applied research work undertaken by ARSO and its member bodies covers goods and services (production, distribution and consumption) relating to all the economic sectors including industry.

### **Public Awareness of the institution**

ARSO enjoys some publicity as its activities feature prominently in the publications issued by other bodies working in the area of standardization such as the International Organization for Standardization (ISO) and in member States' publications. ARSO also publishes on a regular basis, annual reports and newsletters as vehicles to disseminate information on its activities to member States and the general public.

## **The African Regional Centre for Technology (ARCT)**

### **Part A: General Information**

#### **Name of Institution**

#### **Acronyms**

The African Regional Centre for Technology

ARCT

#### **Translated name of institution**

Le Centre Régional Africain de Technologie

CRAT

#### **Headquarters:**

City: Dakar

Country: Senegal

P. O. Box: 2435

Telephone: (221) 23.77.12

Fax: (221) 23-77-13

Telex: 61282 CRATEC SG

**Year of establishment:** 1977, but became operational in 1980

## **Member States of institution**

Algeria, Benin, Burkina Faso, Burundi, Cameroon, Cape Verde, Egypt, Equatorial Guinea, Ethiopia, Ghana, Guinea, Guinea-Bissau, Kenya, Liberia, Malawi, Mauritania, Mauritius, Morocco, Mozambique, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, Somalia, Sudan, Tanzania, Togo, Uganda, Zaire, Zambia.

**Geographical coverage:** Africa region

**Working languages:** English

## **Part B: Expertise and Facilities**

### **Corporate Objective**

Promotes the development, adaptation, transfer and application of both local and foreign technologies in Africa.

### **Nature and Focus of Activities**

- (a) Provision of technological information and documentation services: Centre has established a computerized information system called the African Regional Centre for Technology Information System (ARCTIS), for both public and private sector users. ARCTIS is linked with a number of African countries including Cameroon, Ethiopia, Ghana, Kenya, Malawi, Senegal, Nigeria, Tanzania, Togo, Guinea, Guinea-Bissau, Zaire, Zambia and Côte d'Ivoire. It is also linked with the ECA-PADIS and OAU. A total of 18 countries have been supplied with computers, modems and communication software to link up with centre's electronic network. The main branches of ARCTIS are: Technology Resource Information Services Net; Food Net; Energy Net; and Local Area Net. There is also an Industrial Information Services system that provides information and back-up services to consulting organizations in terms of: patent information, industrial property rights and trade marks; system design and development; training in computer information systems, and electronic mail services and tele-conferencing facilities.
- (b) Research and Technological Consulting services focused on: (i) the development and promotion of technologies for food production, preservation, processing, storage and marketing. In this regard, the Centre has installed a number of Pilot Demonstration Units(PDUs) with equipment for post-harvest processing such as seafood smoking, maize mill/fodder chopping and cassava processing(gari manufacturing, sieve, grater etc); and palm oil extraction; and (ii) on the development and utilization of new and renewable sources of energy including biogas, micro-hydro, wind and solar energy technologies.
- (c) Technological manpower/human resources development programmes including seminars, training workshops and conferences. Regular courses run at Centre include technology management information systems, application of technology management information systems for development planning, high technology needs and application assessment, computer-mediated communication and network systems, publishing and in-house journals production systems and management of information and documentation centres
- (d) Project planning and studies: pre-investment studies; assessment and advice on project proposals; search for and choice of technology for agro-based industries, industrial processing of foods and agricultural products and by-products; evaluation of tenders; methods of production; flowsheets and material balances; design services determining manufacturing processes and technologies; ba-



sic prototype design, fabrication, installation and optimization; renewable energy resource utilization; rural industries development; and rehabilitation of ineffective and marginal industrial units.

### Profile of Expertise Available

Name	Qualifications	Position	Area of interest/focus
Ousmane Kane	Doctorat 3ème Cycle, Ph.D	Deputy Executive Secretary	Applied plant physiology, Food science technology
J. J.K. Asiedu	Ph.D		Mechanical/Agricultural/Engineering/Food Technology
Michael Nageri	BSc, MSc		Education/Information sciences
E. Akouete-Akue	MBs		Management/Accounting
Mame B. Gaye (Mrs)	Agronomic Engineer		Social Economics
N. Diagne-Ba (Mrs.)	Master in English, Diploma in Translation (French-English), Relay Interpreter	Translator, Interpreter	Translation and Interpretation(from english to french)
Asfaw Fissiha	Diploma in Programming, Certificate of Analyst/Programmer		Analyst/Programmer

### Facilities

#### Library Facilities

Centre has a fully computerized library with a stock of about 10,000 titles of specialized books, monographs and reports on science and technology management, technology policy, food technology, industrial and enterprise management (SMIs & SMEs), metal working and fabrication (formal and informal sectors) etc. About 150 periodicals on these subjects are also received on a regular basis.

#### Computer Facilities

- (a) 47 (386/486) computer systems supporting centre's computerized technological information services and network including access to foreign science and technology data bases.
- (b) A 486 PC-based host server supporting on-line linkage via telephone, fax and telex lines as well as through national packet switching networks.
- (c) Current configuration is being upgraded with additional five pentium machines and ten DX2 multimedia stations with CD-ROM drives

#### Training Facilities

In-house training facilities including computers, conference rooms, lecturers, and simultaneous interpretation are available to support the Centre's manpower/human resources development programme. The Pilot Demonstration Units also provide a valuable facility for training and demonstration purposes.

#### Printing Press

In-house publishing is undertaken in respect of the Centre's bulletins, newsletters, brochures and occasional papers.

## **Publications**

These include:

- (a) Biotechnology Handbook
- (b) Handbook on Food Irradiation
- (c) Bi-annual African technology development bulletin
- (d) Quarterly Alert Africa Newsletter
- (e) Bi-annual INFONET bulletin
- (f) A Directory of Institutions and Experts in Science and Technology in Africa
- (g) A Directory of Technician Training Institutions in Africa
- (h) Renewable Energies: a path towards African development
- (i) Regional Atlas on Food Processing Technologies
- (j) Towards Self-Sufficiency in Food Products: Reduction of Post-Harvest Losses
- (k) On-Farm Handling, Processing, and Storage of Food Grains in Africa
- (l) Rice Parboiler Hardware Development in the African region
- (m) Roots and Tubers Production, Storage, Processing and Marketing in Africa
- (n) Biogas Manual: Techniques and Comparison of four Biodigester types
- (o) Survey of major science and technology resources in Africa
- (p) Proceedings of workshop on formulation, appraisal and management of food processing projects

## **Part C: Experience and Performance**

### **Examples of Projects implemented by Institute for the benefit of member States**

- (a) Technological needs assessment surveys in rural areas in Burundi, Ethiopia, Nigeria, Senegal, and Zambia
- (b) Adaptation and construction of a prototype Maize Mill for rural areas at the Kenyan Polytechnic
- (c) Development of up-graded equipment for processing cassava into *gari* and other cassava products in rural areas in Ghana, and establishment of a cassava processing unit in Cameroon in cooperation with UNIFEM
- (d) Establishment of Pilot Demonstration Units for food processing and renewable energy systems in several African countries including Nigeria, Cameroon, Ethiopia, Ghana, Kenya, Senegal, Sierra Leone, Tanzania, Togo and Zambia
- (e) Adaptation and Demonstration of food, energy and women technologies for rural communities jointly with India
- (f) Up-grading of equipment for palm oil processing in Senegal
- (g) Development of a 30 m<sup>3</sup> Biodigester used for cooking and electrical power generation by means of a 3.5 kva fuel engine in Senegal
- (h) A video guide on the construction of Chinese-type biodigester for use by African countries in building their own biogas units
- (i) A Computerized data processing system set up at ARCT with a network for the exchange of technological information with specialized national institutions in Cameroon, Morocco, Kenya, Nigeria and Senegal

## **Examples of Training Programmes conducted for member States**

- (a) Seminar on Choice and Management of Technology with special emphasis on new technologies conducted attended by 35 participants from Burundi, Ethiopia, Benin, Cameroon, Mauritius, Senegal, Togo, Sierra Leone, and Tanzania
- (b) Seminar on the impending energy transition: prospects and role of new and renewable energy systems in Africa attended by 36 participants from Angola, Benin, Burundi, Botswana, CAR, Côte d'Ivoire, Ethiopia, Mali, Nigeria, Senegal, Sierra Leone, Tanzania, Togo, and Tunisia
- (c) Workshop on the formulation, appraisal and management of food processing projects attended by 49 participants from Benin, Egypt, Ethiopia, Ghana, Guinea, Kenya, Nigeria, Senegal and Togo
- (d) Workshop on the promotion of the metalworking sector attended by 41 participants from Benin, Cameroon, Ethiopia, Ghana, Kenya, Malawi, Nigeria, and Rwanda
- (e) Workshop on the use of micro-computers in scientific and technological data processing attended by 74 participants from Cameroon, Ethiopia, Kenya, Nigeria, Senegal, Tanzania, Togo and Uganda
- (f) Attachment programmes at Centre conducted for nationals from Senegal, Zaire, Burundi, Ethiopia, Tanzania and Niger, who worked respectively on preservation of onions by osmotic dehydration; appropriate food technologies; collection, storage and processing of technological information and documentation; strategies for preparing national science and technology policy and evaluation of new and renewable energy technologies in selected member States; analysis and evaluation of appropriate software for technological information management; and survey on biogas technologies

## **Advisory, consultancy and other services provided :**

### **Examples :**

- (a) Formulation of a national policy on science and technology in Rwanda
- (b) Establishment of food R & D structures in Ethiopia
- (c) Training and development of human resources in areas such as food technology, construction, maintenance and use of biodigesters, and in the installation and management of scientific and management information systems in several countries
- (d) Evaluation of agricultural project and appropriate technologies in Guinea
- (e) Programme for strengthening technological capabilities in Uganda
- (f) Food processing and conservation projects: in Côte d'Ivoire on plantain; in Casamance, Senegal on palm oil; and in Ghana on fruits and vegetables

## **Research focus/capabilities**

The foci of the Centre's research and technological consulting services are: the development and promotion of technologies for food production, preservation, processing, storage and marketing; and the development and promotion of technologies for the utilization of new and renewable energy sources. In this context, the Centre has initiated a programme on Techno-Enterprise Incubation of its biogas plant in Senegal. The objective of this initiative is to promote the commercial diffusion of the relevant technologies. The Centre has received requests from Guinea, Senegal, and Sudan to assist in the diffusion of biogas plants.



Contacts have been made with a firm in Liberia to specialized in the manufacturing of industrial digesters with a view to establishing future cooperation between it and the Centre for studying the establishment of a sewage, household and slaughterhouse waste processing PDUs.

### **Public Awareness of the institution**

The Centre's public awareness is enhanced through its policy of fostering cooperation with regional and national institutions in Africa including the Pan-African Union for Science and Technology, the African Academy of Sciences, the Pan African News Agency. The Centre has also developed some international recognition through its constructive cooperation with institutions and donor agencies such as the UNDP, UNIDO, FAO, the World Bank, IDRC, and the Carnegie Corporation of New York.

### **Awards for excellence**

The technology developed at the ARCT-assisted Fish Processing Project at the Nigerian Institute for Oceanography and Marine Research (NIMOR) won the prestigious Raw Materials Research Development Council (RMRDC) Award for Excellence.

## **African Regional Centre for Engineering Design and Manufacturing (ARCEDEM)**

### **Part A: General Information**

#### **Name of Institution**

African Regional Centre for Engineering Design and Manufacturing

#### **Acronyms**

ARCEDEM

#### **Translated name of institution**

Centre Régional Africain de Conception et de Fabrication Techniques

CRACFT

#### **Headquarters:**

City: Ibadan

Country: Nigeria

P. O. Box: PMB 19, UI Post Office

Telephone: (022) 711576

Telex: 31167

**Year of establishment:** 1979, but became operational in 1980

#### **Member States of institution**

Algeria, Benin, Burkina Faso, Burundi, Cameroon, Comoros, Congo, Egypt, Ghana, Guinea, Kenya, Liberia, Mali, Morocco, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, Sudan, Tanzania, Togo, Zaire, Zambia, Zimbabwe.

**Geographical coverage:** Africa region

**Working languages:** English and French

## **Part B: Expertise and Facilities**

### **Corporate Objective**

Development of African capabilities for engineering design and manufacturing of industrial and agricultural machines and equipment.

### **Nature and Focus of Activities**

- (a) Design of equipment and machine components: The Centre acquires machines and equipment for design adaptation taking into account the ease of manufacture, operations and maintenance, size and affordability of cost. The Centre also designs tools and fixtures for making the machines. Machines, equipment and tools designed by the Centre are disseminated to requesting African countries for local production. The Centre also undertakes design work upon request for manufacturing establishments, research institutions, development agencies and individuals
- (b) Manufacturing of equipment prototypes for dissemination to African countries for local production: In this regard, the Centre also assists companies and entrepreneurs in the manufacture and repair of spare parts, in plant layout, etc
- (c) Engineering consultancy services to help African countries solve technical and industrial problems related to the objectives of the Centre: Major courses organized by the Centre include Design and Manufacturing, Production Management and Productivity
- (d) Organization of training courses, workshops, seminars and study tours related to the objectives of the Centre
- (e) Dissemination of information on engineering design and manufacturing
- (f) Assistance to African countries in establishing and strengthening their national centres in engineering design and manufacturing
- (g) The Centre is capable of undertaking in-depth evaluation of industrial factories earmarked for rehabilitation and participating in the implementation of the actual rehabilitation programme
- (h) For new industrial units being established, the Centre can provide assistance in drawing technical specifications, evaluating tender offers and supervising project implementation including installation of machinery

### **Profile of Expertise Available**

Name	Qualifications	Position	Area of interest/focus
M. F. Abdel Rahman		Executive Director	
S. B. Lwakabamba		Director of Training	
T. A. Diallo		Programme Officer	
M. D. Manga		Design Engineer	
V. T. Shehu Ishola(Mrs)		Administrative Officer	
O. O. Ojo		Administrative Officer	
O. Aluko		Information Officer	

Name	Qualifications	Position	Area of interest/focus
B. A. Ogunleye		Finance Officer	
Aiyegbusi		Finance Officer	
M. Bengono		Translator/Interpreter	

## Facilities

### Library Facilities

The Centre has a fully equipped library to support its activities and provide services to other users. ARCEDEM Library has become one of the most used libraries in Ibadan, Nigeria by technical staff and undergraduate and graduate engineers. The Library has over 6,500 reference materials, handbooks, etc.

### Computer Facilities

A number of computer equipment and software are available at the Centre for use by trainees and staff.

### Training Facilities

The Centre has well furnished training rooms with audio-visual and other training materials

Plans are afoot to establish a training foundry, an electro-plating plant, and a number of training equipment for non-conventional technologies such as laser, electro-chemical and ultrasonic machining.

### Hostel Facilities

The Centre has a Hostel Block to accommodate up to 36 trainees. The block has a cafeteria attached.

### Other Facilities

To meet its planned objectives, the Centre is equipped as a medium scale fully integrated industrial plant with various design and manufacturing equipment. The workshops are well equipped for training purposes, prototype development, jobs and manufacturing of machine components and spare parts. Over 150 machinery and equipment are installed to conduct operations including CNC milling, electro-erosion, plasma cutting, heat treatment, forging, wood working and pattern making.

The Centre has a Design Department with drafting equipment, design standards and computer aided design facilities.

## Publications

The Centre publishes a quarterly bulletin depicting its activities and programmes in design, manufacturing, consultancy services and training.



## **Part C: Experience and Performance**

### **Examples of Projects implemented by Institute for the benefit of member States**

- (a) Prototypes, products and tools have been designed, developed and/or manufactured by the Centre for industrial establishments, communities and institutions. These include: 3-Ton Crane, mini palm oil processing plant, single roll injection planter, universal grain oil extraction mill, gari processing plant, quenching tanks, guillotine shear, heat roller, belt conveyor, JAB planter, gas stove, profile rollers;
- (b) Concept designs for a lime production plant equipment and a ceramic semi-industrial equipment;
- (c) Design documentation and batch production of two 40-ton and 15-ton hydraulic presses for workshop activities and maintenance purposes: These prototypes are being produced in batches at the Centre and disseminated for local production;
- (d) Design documentation for hammer mill, engine or electrically operated for making flour from grains (maize, wheat, beans etc.) up to 200 kgs per hour. Available for dissemination in the form of blue print drawings. Prototype for this equipment being manufactured at the Centre;
- (e) Blanking/piercing dies for manufacturing refrigerator hinges for Leventis PLC have been designed in the form of blue prints and are being manufactured;
- (f) Machinery and equipment rehabilitation carried out for two industrial factories in Benin;
- (g) Machine repair and maintenance services to local industries in Nigeria.

### **Examples of Training Programmes**

The Centre has trained over 500 engineers and technicians from African countries through its regular donor-sponsored training courses at the Centre, industrial attachment programmes and study tours to industrial establishments overseas. The training programmes include:

- (a) Twelve courses on design and manufacture of spare parts for machinery repair and maintenance of 3 months duration each
- (b) Three courses on design and manufacture of jigs and fixtures for a duration of 3 months each
- (c) Two sub-regional training workshops on production development and productivity improvement lasting two weeks each respectively for eastern and southern African countries and west African countries
- (d) Three industrial study tours in Brazil, Hungary and Poland
- (e) Several industrial attachment programmes for students and industrial personnel

Apart from the Centre itself, sponsors of training programmes organized by it have included UNDP, the Commonwealth Secretariat, the European Union, African industrial establishments, as well as Brazil, Hungary and Poland (for the study tours).

### **Advisory, consultancy and other services provided:**

The Centre has provided a number of advisory and consultancy services to Ministries, individuals, industrial establishments and development agencies. These include:

- (a) Selection of workshop machinery and equipment for three industrial development centres in Nigeria

- (b) Survey of the foundry sector in Nigeria; preparation of cost/benefit analysis for the establishment of three demonstration and training foundries for the country; and evaluation of tenders and provision of engineering advisory services for the establishment of an industrial production foundry for the Nigeria Machine Tools Company
- (c) Creation of a national centre for engineering design and manufacturing in Congo
- (d) Rehabilitation of industrial plants in Guinea and the strengthening of the existing national centre for engineering design and manufacturing in that country
- (e) Productivity improvement in selected Kenyan Manufacturing Plants jointly with the Kenyan Industrial Research Institute
- (f) Productivity improvement and the creation of small scale industries in the Sudan

### **Research focus/capabilities**

The research activity of the Centre focuses on the conception of new designs through to prototype development, manufacturing and testing, principally in the industrial, agricultural and transport sectors.

### **Public Awareness of the institution**

The Centre has gained tremendous recognition through its programmes which are in high demand by African industrial establishments, research and development institutions, government ministries etc. ARCEDEM has participated in two trade fairs in which over 500 industrialists, entrepreneurs and government officials visited its pavilions, the majority of whom expressed interests in the Centre's displays and followed up with official requests.

## **Association of African Trade Promotion Organization (AATPO)**

### **Part A: General Information**

#### **Name of Institution**

#### **Acronyms**

Association of African Trade Promotion Organization

AATPO

#### **Translated name of institution**

Association des Organisations Africaines de Promotion Commerciale

AOAPC

#### **Headquarters:**

City: Tangier

Country: Morocco

P. O. Box: 23

Telephone: (212-99) 416.87, 415.36

Telex: 33695 M

**Year of establishment:** 1974, but became fully operational in 1977

## Member States of institution

Algeria, Burkina Faso, Cameroon, Egypt, Ethiopia, Gabon, Ghana, Kenya, Liberia, Libyan Arab Jamahiriya, Mali, Morocco, Nigeria, Somalia, Sudan, Swaziland, Togo, Tunisia, Uganda, Zambia, Zaire.

**Geographical coverage:** Africa region

**Working languages:** English, French and Arabic

## Part B: Expertise and Facilities

### Corporate Objective

Promotion of intra-African trade, exchange of trade information and harmonization of trade policies among African countries, and activities intended to lead to concrete commercial transactions among economic operators in Africa, taking into account new needs stemming from the emergence of trade liberalization policies and the promotion of the private sector in development.

### Nature and Focus of Activities

- (a) Publication and dissemination of trade information and trade opportunities in Africa
- (b) Research and Studies on factors affecting intra-African trade
- (c) Trade Development through activities intended to encourage actual trade exchanges among African enterprises
- (d) Training aimed at building and improving capacities of officials responsible for trade promotion in member States
- (e) The Association is also oriented towards activities intended to lead to concrete commercial transactions between African and foreign investors/businessmen.

### Profile of Expertise Available

Name	Qualifications	Position	Area of interest/focus
Orimalade Adeyinka	B.Sc. (ECON), M.Sc (ECON), Certificat de Doctorat de l'Université (Paris, Sorbonne)	Secretary General	Trade policies, trade promotion and facilitation, management, human resources development
Gaye Amath	DAFI	Trade Information Officer	Trade Information
Ali Ahmed Kurdi	Diploma (Public Administration)	Administrative and Finance Officer	Administration, accounting and finance
Madam Liliane Badaoui	Accountancy	Administrative and Finance Assistant Officer	Administration, accounting and finance

### Facilities

#### Library Facilities

The Association has a documentation department with various trade information and directories



## **Computer Facilities**

Computer-assisted trade information services

## **Training Facilities**

Conference and meeting facilities

## **Publications**

- (a) Information Bulletin: Flash on African Trade containing intra-African trade news, information on AATPO's activities, and articles on intra-African trade
- (b) Directory of African State Trading Organizations
- (c) Directory of Trade Information Sources in Africa
- (d) Directory of Importers and Exporters of Food Products in Africa
- (e) Bibliography
- (f) Calendar of Trade Events in Africa
- (g) Hides and Skins in Algeria and Egypt (Market Profiles)
- (h) Wood and Wood Products in Algeria, Egypt, Morocco and Tunisia (Market Profiles)
- (i) African Trade Perspectives on: Cameroon, Egypt, Ethiopia, Ghana, Kenya, Libya, Morocco, Nigeria, Swaziland, Sudan, Togo, Tunisia, Zambia and Zaire
- (j) Organizing effective trade missions (a manual for trade promotion officials)

## **Part C: Experience and Performance**

### **Examples of Projects implemented by Institute for the benefit of member States**

Joint AATPO-EU Integrated Trade Development Project consisting of following actions intended to lead to actual commercial contracts:

- (a) Identification of priority products with the potential for increased trade among AATPO member countries
- (b) Study of potential markets and the identification of buyers and sellers of the selected products
- (c) Organization of trade missions aimed at promoting contacts between potential buyers and sellers
- (d) Follow-up action consisting of visits to businessmen participating in the trade missions, and organization of workshops for the relevant businessmen and trade development officials

### **Examples of Training Programmes conducted**

- (a) Seminar on Trade Promotion by State Trading Organizations
- (b) Seminar for Heads of African Trade Promotion Centres
- (c) Symposium of Presidents and General Secretaries of African Chambers of Commerce
- (d) Workshops for exporters of Hides and Skins, wood and wood products
- (e) Workshops for trade promotion officials

## Research focus/capabilities

Research forms an integral part of the activities of the Association, focusing on the identification and analysis of the factors affecting intra-African trade.

# Port Management Association of Eastern and Southern Africa (PMAESA)

## Part A: General Information

### Name of Institution

### Acronyms

Port Management Association of Eastern and Southern Africa

PMAESA

### Translated name of institution

Association de Gestion des Ports de l'Afrique de l'Est et Australe

AGPAEA

### Headquarters:

City: Mombasa

Country: Kenya

P. O. Box: 99209

Telephone: 223245

Fax: 315398

Year of establishment: 1973

### Member States of institution

Comoros, Djibouti, Ethiopia, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Seychelles, Somalia, Sudan, Tanzania, Zambia, Zimbabwe.

Geographical coverage: Eastern and Southern Africa

Working languages: English and French

## Part B: Expertise and Facilities

### Corporate Objective

Promote improvements in and coordination and standardization of African port operations, equipment and ports/harbour services, foster cooperation with other transport organizations in and outside Africa, and provide a forum for member States to exchange views on problems and solutions in areas such as delivery of technical services, maintenance of equipment, management, and manpower.

## Nature and Focus of Activities

- (a) Dissemination of guidelines on ports and shipping services in member States
- (b) Publication of newsletters as a vehicle for the sharing of experiences among ports of member States
- (c) Dissemination of information on port experts
- (d) Establishment of a Data Bank on ports
- (e) Promotion of measures to combat marine pollution
- (f) Development of manpower for port management and operations

## Profile of Expertise Available

Name	Qualifications	Position	Area of interest/focus
Khrisnah Appadu	-Higher National Diploma in Business Studies -Member of the Chartered Institute of Management Accountants -Associate Member of the Chartered Institute of Transport	Secretary General	Tariffs

## Facilities

### Computer Facilities

2 PCs

### Publications

Newsletter/Bulletin on PMAESA's activities

## Part C: Experience and Performance

### Examples of Projects implemented by Institute for the benefit of member States

None so far, however, the Association has planned a number of important projects and an action plan elaborating these projects has been adopted by its Executive Committee. The projects are:

- (a) Preparation of a Port Guide
- (b) Directory of Port Experts
- (c) Establishment of a Data Bank
- (d) Protection of the Marine Environment
- (e) Manpower Development and Training requirements
- (f) Harmonization of Port Statistics and Performance Indicators
- (g) Establishment of a Dredging Pool
- (h) Harmonization of Tariff Structure
- (i) Standardization and Maintenance of port equipment
- (j) Simplification and Standardization of Port regulations and procedures



## Examples of Training Programmes

None so far, however, plans are afoot to utilize the Bandari College of Mombasa as a regional training centre to conduct courses for PMAESA. Initial course will be a diploma in Clearing, Warehousing and Practical Freight Forwarding.

## Public Awareness of the institution

PMAESA appears in the following publication: Yearbook of International Organizations; Union of International Associations.

# Regional Centre for Training in Aerospace Suveys (RECTAS)

## Part A: General Information

Name of Institution	Acronyms
Regional Centre for Training in Aerospace Surveys	RECTAS
Translated name of institution	
Centre Régional de Formation aux Techniques des Levés Aérospatiaux	CRFTLA

## Headquarters:

City: Ile Ife  
Country: Nigeria  
P. M. B. 5545  
Telephone: 036-230050, 036-230225  
Fax: 234-1-36-230481  
Telex: 34262 RECTAS NG  
Cable: AEROCENTRE IFE NIG

**Year of establishment:** 1972

## Member States of institution

Benin, Burkina Faso, Cameroon, Ghana, Mali, Niger, Nigeria, Senegal.

**Geographical coverage:** Africa region

**Working languages:** English and French

## Part B: Expertise and Facilities

### Corporate Objective

- (a) Development of African manpower capabilities in the fields of Aerospace Surveys Technologies including: Cartography, photogrammetry, Mapping, Remote Sensing and Digital Image Processing, Photointerpretation, Aerial Photography, Orthophotography, Geographic Information Systems(GIS), Land and Airborne Geophysical Surveys for the provision of various maps, plans, imageries and other geoinformation data. These are indispensable for various applications relating to exploitation of natural resources, environment, planning, population census, desertification, drought, deforestation, other ecological problems, food and agriculture, industrialization, transportation, provision of various infrastructures and social services, etc. To achieve these, the Centre carries out the following:
- (b) Provide primary LONG-TERM theoretical and practical training (of 10-22 months duration) to African nationals of ECA member States in the above areas;
- (c) Conduct seminars, workshops and short-term courses with a view to providing an opportunity for exchange of information and knowledge/experience in these areas for different levels;
- (d) Carry out and promote studies and research in these fields and make available the results to member States and other ECA member countries;
- (e) Provide advisory and consultancy services in these areas to member States, other ECA member countries and the private sector upon request.

### Nature and Focus of Activities

- (a) Organization of training courses in:
  - Photogrammetry at Operator, Technician, Technologist and Postgraduate levels;
  - Remote Sensing at Technician, Technologist and Postgraduate levels;
  - Cartography at Technician and Technologist levels.
- (b) Organization of customized short courses, workshops and seminars in Photogrammetry, Remote Sensing, Geographic Information System(GIS) and Cartography, as well as Computer Digital Image Processing Techniques both in house and/or in ECA member countries;
- (c) Consultancy services in all the above areas to help African countries with the application of these technologies to solve various problems relating to:
  - the planning, exploration, exploitation, inventory and management of various natural resources (e.g. oil, minerals etc) for improved economy;
  - improved food and agricultural production;
  - environmental monitoring and protection and environmental impact assessment;
  - accelerated orderly national planning and development;
  - provision of various infrastructures and social services without degrading the environment;
  - establishment of industries close to required raw materials;
  - conduct of population census for planning purposes and assessment of impact of population;
  - land use and land cover and other thematic mapping for various purposes including control of desertification, drought, deforestation, improved agricultural and forestry practices and for food security;
  - control of flood erosion, pollution, and other ecological problems;
  - national, international boundary disputes and conflict resolutions, peace and national stability etc.

- (d) Carrying out actual Topographic and Large Scale photogrammetric map computations at different scales for various purposes including aerial Triangulation;
- (e) Provision of advisory services to African countries in establishing national Cartographic, Mapping or Remote Sensing and GIS Centres or strengthening existing ones;
- (f) Provision of Land Surveying services including GPS positioning;
- (g) Provision of maintenance and repair services of Remote Sensing, Digital Image Processing and Photogrammetric equipment;
- (h) Provision of Photolaboratory Processing services;
- (i) Provision of Aerial Photography, Remote Sensing and Photointerpretation services;
- (j) Provision of Digital Image Processing, analysis and Remote Sensing mapping services for various cartographic applications;
- (k) General Computer Laboratory services;
- (l) Conducting research in these areas and disseminating these information to African countries for various applications.

### Profile of Expertise Available

Name	Qualifications	Position	Area of interest/focus
J. A. Ogunlami	B.Sc. Surveying Engineering; MSc. Photogrammetry Engineering; Registered and Licensed Surveyor (Nigeria)	Director	Photogrammetry, remote sensing and land surveying
Nouh Amadou Sow	Post Graduate Diploma in Rural Surveys; M.Sc.	Deputy Director	Rural survey using remote sensing techniques, agricultural land use, vegetation and rangeland resources survey using aerial photographs and satellite images
Anthony Adzaho	B.A. (Honours); M.P.A; Certificate in Computerized Admin.	Principal Assistant Secretary/Head of Division, Administration, Finance and Common Services Division	Public Administration, management
Emmanuel Amamoo-Otchere	B.A. (Hons); Diploma in Photo- Interpretation; M.Sc. (Rural Surveys); DESS	Principal Lecturer, Head of Unit	Geography, Photo-interpretation, remote sensing
Benjamin Olaofe	Post Graduate Diploma in Photogrammetry and Land Surveying; M.Sc. (Photogrammetry); Certificate in Remote Sensing; Certificate in Space Mapping; Certificate in Aerial Triangulation; SURCON Registered Surveyor	Principal Lecturer in photogrammetry	Photogrammetry, Land surveying, space mapping, aerial triangulation
Raphael Oyinloye	B.Sc.; M.Sc.; M.Phil (DESS); Post- Graduate Diploma	Lecturer, Head of Unit	Photogrammetry, Remote Sensing, Geographical Information Systems
Ayotunde Omitogun	Ph.D; DESS; Certificate Course	Lecturer	Geology, Remote Sensing, Geographical information systems
Abdoulaye Cisse	M.Phil (Remote Sensing, GIS, Radargrammetry); M.Sc. (Photogrammetry and Space Mapping); Technician Diploma and Engineer Diploma in Photogrammetry	Lecturer in photogrammetry and remote sensing	Photogrammetry, Remote Sensing, Spatiotriangulation, space mapping with satellite imageries Landsat TM
Azuka Pius Ozah	B.Sc. (Hons); Post-Graduate Diploma in Computer Science; Certificate in Remote Sensing Applications and GIS	Assistant Lecturer in photogrammetry	Survey, Geodesy and Photogrammetry, Computer Science



Name	Qualifications	Position	Area of interest/focus
Omotosho Johnson Oluborode	Post-Graduate Diploma; Technologist Diploma; M.Phil (DESS); Certificate in GIS	Lecturer, Head of Unit	Photogrammetry, Remote sensing, geographical information systems
Abdou Lat Gueye	Post Graduate Diploma in Integrated Map and Geoinformation Production	Lecturer	Integrated mapping and geo-information production, Land use classification from satellite images
Joseph Kufeji	Post Graduate Diploma in Photogrammetry	Lecturer	Plotting from aerial photographs
Pouna Marc Kibora	Technologist Diploma	Lecturer, Officer-in-Charge Cartography Unit	Cartography

## Facilities

### Library Facilities

Centre has a computerized library with a rich stock of textbooks covering a variety of subjects including photogrammetry, remote sensing, GIS/LIS, GPS, cartography, computer science, mathematics, physics, geography, geology, surveying and mapping for teaching and research purposes. The Library's specific journals include: Photogrammetric Engineering and Remote Sensing; International Journal of Remote Sensing; ITC Journal; Nigerian Society of Remote Sensing Journal; Nigerian Journal of Forestry; GIS World; Cartography and GIS; International Journal of GIS; *Société Française de Photogrammétrie et Télédétection*; Photointerpretation; PC-Computer Magazines etc.

### Laboratory/workshop Facilities:

- (a) Equipment for Photogrammetry and Surveying including: Wild Autographs (A9, A8 and B8S); Kern PG2; ITC Stereotrainer; Wild Rectifier E4; Wild PUG4 E4; Wild Reduction Printer; Template Cutter; Pocket Stereoscope; Coordinatograph; Multiplexograph; Analytical Photogram-meter Yserman; Twin Stereoscope; Matra Traster (Analytical Plotter) T5; Wild T2 Theodolite; Levels and staffs; Global Positioning System; and CMPI Comparator and PDP II Computer.
- (b) Equipment for Remote Sensing including: STEREO TYPE: Mirror and Pocket stereoscopes; Twin Stereoscope; Stereopret; Stereosketch 8B 115; and PAM SI of APY; DIGITAL TYPE: (Hardware): High resolution image screen AYDIN (19"); and Graphic printer EPSON FX 1050; Microsoft serial mouse; Ondulator 2000 VA CYNDYNE; Micro-computer Compaq 386/33 (300 mbytes); Joint-processor (Mathematics) INTEL 80387; High resolution image screen AYDIN RANGE 21 MP (21"); High resolution image screen NEC MULTISYNC 3D (14"); NUMBER NINE Image Board; Graphic Printer EPSON LQ 1050; Thermal Colour restitutor; TEKTRONIX 4693 DX; Magnetic-Optical Disk reader RICOH RS-9200 II; and Magnetic band reader winder 6250 bpi CIPER 900 series. Software packages: Didactim 3.3/C.I; Multiscope 1.3/Windows 2.0; Turbo Pascal 5.5; and Pctools 5.5 Deluxe. OPTICAL TYPE: Zoom Transferoscope; Sketchmaster; and Ground truth Radiometer.
- (c) Hand instruments for image measurements including: Tube magnifier; Polar planimeter; Parallax bar (wedge); Micro rule; Proportional dividers; Dot counters; and Pocket tube calculators.

- (d) Field observation and field measurement kits including: Binoculars; compasses; theodolites; levels, plane tables etc.
- (e) Cartography and Map production equipment including: Drawing equipment and materials; Diazo printer (1667 Aarque); and 2-tier and 3-tier computer tables without a side drawer.

### Computer Facilities

The Centre has modern 386/486 PCs for its offices and training programmes. The centre's Computer facilities are equipped with software including:

- (a) Image Processing: Didactim, Multiscope and Arc/Info, SynerGIS, OCAP1 for GIS applications;
- (b) Photogrammetric Application Packages: Integrated Land and Water System (ILWIS); PHI orientation for photo orientation; APY;
- (c) Scientific Programming: Borland C Compiler, Micro Soft Fortran, BASIC, PASCAL;
- (d) System Communication: Laplink for file exchange between two PCs; 10 NET for file exchange between PCs on a network;

### Training Facilities

- (a) Overhead Projectors, White Boards, Light Tables, Pocket stereoscopes, Mirror stereoscopes
- (b) Various instruments for photogrammetry
- (c) Computers for Remote Sensing, GIS, Photogrammetry
- (d) Buses for the transport of students and seminar participants
- (e) Various vehicles for field work
- (f) Simultaneous translation/interpretation services and equipment

### Hostel Facilities

RECTAS is located on the Obafemi Awolowo University (OAU) Campus where it has built its own hostel for students. The Centre has also been allocated accommodation by the OAU within the University Students' Hostel. It has some rented flats for students close to the campus in Ife town.

### Other Facilities

#### Conference Facilities:

- (a) A 20-Seater Conference/Committee Room, and a 40-Seater Seminar Room.
- (b) The Centre also uses the University's large OAU Conference Hall (300 Seaters) when the need arises.

### Publications

Annual RECTAS Newsletter, publications on seminar proceedings, and research papers.

## Part C: Experience and Performance

### Examples of Projects implemented for the benefit of member states.

Project Title	Nature of Project	Client
(a) Map compilation of Port Harcourt and Murtala Mohammed International Airport	Manuscript compilation	Satellite International (Nig) Ltd, Lagos Nigeria
(b) ADB-funded EIA Project on Procurement and Analysis of SPOT Image for a Defined 250km corridor along Enugu-Makurdi-Yandev NEPA HVT Line	Environmental impact assessment.	Triple "E" Systems Associates Ltd, Lagos, Nigeria
(c) Osun State Topo-Map Revision project	Map revision	Ministry of Lands and Physical Planning Bureau (Survey Department), Osun State, Nigeria.
(d) Maintenance and repairs of remote sensing equipment	Maintenance and repairs	National Water Resources Institute, Kaduna, Nigeria.
(e) Maintenance and Installation of photogrammetry instruments	Maintenance and repairs	Senegalese Government
(f) Large-scale Township Map compilation of 33 models of Port Harcourt	Map compilation	P.A. Adeleye & Associates, Lagos Nigeria.
(g) Aerial surveys and map compilation of Kamalo Lake Area in Sokoto State (Area coverage: 500 sq km)	Aerial surveys and map compilation	Makingson Surveys, Ibadan, Nigeria.
(h) Geological Mapping of the Bauchi Area using SPOT Satellite Imagery	Geological mapping	Elf Nigeria Ltd.

### Examples of Training Programmes conducted

The Centre has trained over 700 students from African countries at different levels in photogrammetry, remote sensing, photointerpretation and cartography.

A number of national and subregional workshops/seminars have also been organized. These include:

- Training workshops on surveying and photogrammetric computations
- National workshops on surveying and mapping computations
- National spot workshop for decision makers
- Subregional training workshop on census cartography
- International seminar on new developments in cartographic applications of remote sensing
- National seminar for decision makers and planners on applications of remote sensing and GIS for sustainable development and environmental protection
- National workshop for policy/decision makers on agricultural and environmental applications of remote sensing and GIS
- Specialized training in digital image processing for monitoring of the Chad Basin for the Lake Chad Basin Authority.

### Examples of consultancy services provided

- Karshi Mapping project: aerotriangulation and adjustment. Client: Bonan Surveys, Bendel State, Nigeria;
- Uyo Mapping project: manuscript compilation. Client Mr. Theophilus Udo-Isong, Calabar, Nigeria;



- (c) Kandi Mapping project: mapping. Client: Djibril Aboudou, Benin Republic;
- (d) Drilling for gas/hydrocarbons: Magnetic variation. Client: Shell Petroleum Development Company of Nigeria Ltd;
- (e) Applied Cartography in Geology of Bauchi Area, Nigeria: Geological mapping. Client: French Embassy, Lagos, Nigeria;
- (f) Environmental impact assessment project for Edop Field, Eket, Akwa Ibom State, for Mobil Oil, Nigeria Ltd: Environmental impact assessment. Client Triple "E" Josef Ross Joint Venture, Lagos Nigeria;
- (g) Satellite Image processing and Analysis for Nkalagu Cement Factory Environmental Impact Assessment: Image processing and analysis for environmental impact assessment. Client Triple "E" Josef Ross Joint Venture, Lagos Nigeria.

### **Research focus/capabilities**

Research activities have been carried out by the Centre on map revision, digital terrain modelling, corridor characterization for environmental impact assessment, and assessment of deforestation and general land use survey. Examples of research projects under negotiation (N) or on-going (O) include the following:

- (a) Urban growth and spatial planning in Nigeria. Client: Institute of Ecology, Obafemi Awolowo University, Nigeria (N);
- (b) Greenhouse Gas Emission Reduction in Nigeria: Macro-economic impact and least-cost reduction strategies. Client: US Government under the US support for country studies to address Climate Change Programme, through the Federal Ministry of Foreign Affairs of Nigeria (N);
- (c) Climate and man's impact on vegetation: Assessment on vegetation using remote sensing. Clients: Department of Forest Resources Management, University of Ibadan, Department of Geography, Obafemi Awolowo University, both in Nigeria (O); Research activities have been carried out by the Centre on map revision, digital terrain modelling, corridor characterization for environmental impact assessment, and assessment of deforestation and general land use survey.
- (d) Archaeological assessment of satellite imagery (Ilesa as Case Study). Client: Institute of African Studies, University of Ibadan, Nigeria (O);
- (e) Terrain evaluation using GIS and remote sensing techniques. Client: Nigerian Building and Road Research Institute, Lagos, Nigeria (N).

### **Public Awareness of the institution**

Articles on RECTAS have been published in the Journal of the International Institute for Aerospace Surveys and Earth Sciences, Enschede, The Netherlands; the Journal of the *Groupeement pour le Developpement de la Télédetection Aérospatiale*, Toulouse, France; World Bank Compendium, 1993.