



**UNIVERSITY OF NAIROBI**

# Annual **Report**



**2012**

## OUR VISION

A world-class university committed to scholarly excellence.

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## OUR MISSION

To provide quality university education and training and to embody the aspirations of the Kenyan people and the global community through the creation, preservation, integration, transmission and utilization of knowledge.

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## OUR CORE VALUES

- freedom of thought and expression;
- innovativeness and creativity;
- good governance and integrity;
- team spirit and teamwork;
- professionalism;
- quality customer service;
- responsible citizenship;
- national cohesion and inclusiveness.



# Annual Report 2012

## University of Nairobi Factfile 2012

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<b>Student Population</b>	62,000
<b>PhD</b>	65
<b>Masters</b>	22
<b>Bachelors</b>	69
<b>Diplomas</b>	27
<b>Certificates</b>	24
<b>Staff</b>	6,000
<b>Alumni</b>	146,000

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# Foreword

The 2012 University of Nairobi Annual Report captures the main activities of academic departments and administrative units of last year. The Report outlines programmes on offer, admission statistics, graduation statistics, research links and collaboration, papers presented at international meetings, publications, corporate social responsibility activities and the financial statement.

Through the activities, the University accounts for itself within its stated mandate of Research, Teaching, Consultancy and Corporate Social Responsibility to its stakeholders. The Report also highlights the ICT infrastructural position of the University as well as the financial status of the august institution – which have enabled the University to carry out its activities and live up to its motto “Unitate et labore”.

The centre spread contains selected images of important corporate activities of last year. We hope that the Annual Report 2012 highlights interests for our stakeholders. We appreciate your feedback.

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Tel: 020 - 020-318262 Ext 28263  
Telefax: 020 2246369  
Email: [pr@uonbi.ac.ke](mailto:pr@uonbi.ac.ke)  
[www.uonbi.ac.ke](http://www.uonbi.ac.ke)

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Editorial Team  
Charles E. Sikulu  
Njeri Muhoro  
Mariam Maina

# Vice-Chancellor's Message



**Prof. George A.O. Magoha**  
**Vice-Chancellor**

This Report reflects the University's lead in promoting excellence in research, intellectual discourse, physical infrastructure development, publication, international links and collaboration. The Report dovetails into the commitments made by the University in its Strategic Plan, Performance Contract and its mandate to participate in the discovery, transmission, preservation and utilisation of knowledge in the midst of economic and political upheavals which in turn have an impact on recurrent funding.

As a leading institution of higher education, the University offered quality education and training, meeting the need, aspirations and demands of the citizenry. This is evident from the new programmes offered in the units; programmes which remained critical in attaining Kenya Vision 2030. We believe that internalising our brand was realised in 2012, and look forward to when our efforts to train academic and technical staff in writing winning grant proposals raises the visibility of our research capacity and portfolio.

The Report also details the University's financial performance during the year, indicating that with prudent management, the University remains in

a state of good health, this is the requirement for level grade 1 state corporations. Again, the Report is a test of the energy and synergy that was demonstrated throughout the year and a reawakening of strengthening the governance structure within the University.

The sterling performance of the University has been made possible by the loyalty and commitment of staff; it is they who were critical in enabling the University to discharge its mandate, and they deserve commendation. It is important that we look back at what was a busy year with activities that display a commitment to the core values of team spirit and team work.

This spirit is critical for making our institution an attractive destination for intellectual discourse. Indeed, the support from our stakeholders grew such that mentoring from some of the best scholars in the world was experienced.

As you read the report, we wish to request you to provide feedback not only on the issues raised, but also on other issues that you would like us to cover. This is important in helping us to improve on delivery of services, goods and products to our stakeholders and to maintain corporate communication in an improved structure.

# CHANCELLOR AND OTHER PRINCIPAL OFFICERS OF THE UNIVERSITY



Dr. Idle Omar Farah  
Chairman, University Council



Dr. Joseph B. Wanjui  
Chancellor



Prof. George A.O. Magoha  
Vice-Chancellor



Prof. Henry W. Mutoro  
Deputy Vice-Chancellor  
Academic Affairs (Ag)



Prof. Isaac M. Mbeche  
Deputy Vice-Chancellor, Student Affairs



Prof. Peter M.F. Mbithi  
Deputy Vice-Chancellor  
Administration & Finance



Prof. Lucy W. Irungu  
Deputy Vice-Chancellor, Research,  
Production and Extension



Prof. Agnes W. Mwangombe  
Principal, CAVS



Prof. Bernard N.K. Njoroge  
Principal, CAE



Prof. Bernard Aduda  
Principal, CBPS



Prof. Isaac O. Jumba  
Principal, CEES (Ag)



Prof. Isaac Kibwage  
Principal, CHS



Prof. Enos H.Njeru  
Principal, CHSS



Prof. Horace Ochanda  
Deputy Principal, Kenya Science (Ag)



Prof. Peter K'Obonyo  
Deputy Principal, CHSS

# DEANS & DIRECTORS



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Dean, Faculty of  
Veterinary Medicine



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Wangari Maathai Institute



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Dean, School of the Built Environment



Dr. W. Onyango  
Director, School of the Arts &  
Design



Prof. P. Odira  
Dean, School of Engineering



D. M. Maina  
Director, Institute of  
Nuclear Science & Technology



Prof. L. Njenga  
Dean, School of Physical Sciences  
(Ag.)



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Director, School of  
Computing & Informatics



Prof. J. Ochanda  
Coordinator, Centre for  
Biotechnology & Bioinformatics



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Director, School of  
Mathematics



Dr. E.M.W Akunda  
Director, School of Biological  
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Dean, School of Education



Dr. H. Kidombo  
Dean, School of Continuing  
& Distance Education (Ag.)



Mr. J. Odumbe  
Coordinator, Open and  
Distance Learning Center



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Dean, School of Medicine



Prof. A. Guantai  
Dean, School of Pharmacy



Dr. D. Ongore, Director,  
School of Public Health



Prof. L. Gicheca  
Dean, School of Dental Sciences



Dr. G.M. Omoni  
Director, School of Nursing  
Sciences (Ag.)



Prof. W. Mwanda  
Director, UNITID



# DEANS & DIRECTORS



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Dean, Faculty of Arts



S. Nzuve  
Dean, School of Business



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Mass Communication



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Director, Institute for  
Development Studies



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Director, Institute of Anthropology,  
Gender and African Studies



Prof. M. Nzomo  
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Director, Population Studies  
Research Institute



Prof. C. Okidi  
Coordinator, Centre for  
Advanced Studies in  
Environmental Law & Policy



Prof. G. Muriuki  
Special Students Advisor



Prof. J. Midiwo,  
Director, Board of Common  
Undergraduate Courses



Prof. E. Mutitu,  
Director, Board of  
Postgraduate Studies



Prof. J. W. Mwangi  
Coordinator, Intellectual  
Property Office



Prof. S. Mitema  
Director, Centre for International  
Programmes and Linkages



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Director, Information,  
Communication & Technology  
Center



Mr. M. Karue  
Finance Officer



Mr. B. M. Waweru  
Academic Registrar (Ag)



Dr. D. M. Bulinda  
Registrar, Administration (Ag)



Mr. W. J. Asilla  
Planning Registrar (Ag)



Ms. M. Lugonzo  
Registrar, Student Affairs  
(Ag)



Mrs. B. Wanjala  
Registrar, Research, Production  
and Extension (Ag)



Dr. (Fr) D. Wamugunda  
Dean of Students.



Mr. R. Lugwe  
Director, Students Welfare  
Authority



Dr. S. Ochiel  
Chief Medical Officer

# 1.00 Central Administration

## Academic Division

The Academic Division undertakes the following functions: preparation of syllabus and regulations, co-ordination of examinations, undergraduate student's admissions, academic staff development, management of student records.

The Academic Division is made up of the following sections: Academic Registrar's Office; Examination Office; Admissions Office; Deans/Senate Secretariat.

## Admissions

In 2012, 4,447 students were admitted to the University of Nairobi. The first years reported on 3rd September 2012 and orientation and academic learning commenced.

## Examinations

In 2012, the Examination Center processed 11,885 examinations. Within this period, the Center completed 29 examination disciplinary/appeal cases and communicated the results to the affected students within an average of 8 days from the date of the Senate recommendation.

## Graduation

In 2012, the University graduated the following numbers:

<b>Bachelor Degree Awards</b>	<b>7288</b>
<b>Diploma Awards</b>	<b>2472</b>
<b>Masters Degree Awards</b>	<b>3061</b>
<b>Postgraduate Diploma Awards</b>	<b>89</b>
<b>Doctor of Philosophy Awards</b>	<b>79</b>

## Senate approved programmes

In 2012, the Senate approved the following academic programmes:

- Bachelor of Science in Agriculture.
- Master of Science in Environmental Management
- Master of Science in Health Economics and Policy
- Doctor of Philosophy in Economics.
- Bachelor of Science in Electronics. (SEUCO)
- Master of Arts in Human Rights.
- Master of Science in Organic Chemistry.

- Master of Science in Inorganic Chemistry.
- Master of Science in Analytical Chemistry.
- Master of Science in Industrial Chemistry.
- Master of Science in Environmental Chemistry.
- Master of Science in Aquaculture.
- Master of Science in Soil Science.
- Master of Science in Agro-Forestry.
- Master of Science in Agro Ecosystem and Environment.
- Bachelor of Applied Science in Geoinformatics. (KPUC)
- Bachelor of Science in Electronics. (SEUCO)
- Master of Science in Environmental Management. (SEUCO)
- Master of Science in Integrated Water Resources and Watershed Management. (SEUCO)
- Postgraduate Diploma in Housing Administration.
- Bachelor of Science in Biochemistry and Molecular Biology. (SEUCO)
- Bachelor of Science in Land Resource Management. (SEUCO)
- Master of Science in Human Resource Management. (SEUCO)
- Master of Science in Marketing. (SEUCO)
- Master of Science in Entrepreneurship and Innovations Management. (SEUCO)
- Master of Education in Seed Technology and Business Management. (SEUCO)
- Postgraduate Diploma in Seed Technology and Business Management. (SEUCO)
- Doctor of Philosophy in Environmental Governance and Management. (SEUCO)
- Bachelor of Arts in Kiswahili.
- Postgraduate Diploma in Seed Technology and Business Management.
- Master of Science in Seed Technology and Business Management.
- Master of Science in Human Resources Management.
- Master of Science in Marketing.
- Master of Science in Entrepreneurship and Innovations Management.
- Doctor of Philosophy in Environmental Governance and Management.
- Bachelor of Technology (Geoinformation Technology). (KPUC)
- Bachelor of Technology (Surveying Technology). (KPUC)
- Bachelor of Criminology and Criminal Justice.
- Doctor of Philosophy in Climate Change and Adaptation.
- Postgraduate Diploma in Biomedical Research Methodology.
- Master of Science in Leadership and Health Systems Management.
- Master of Science in Medical Statistics.
- Bachelor of Arts in German Studies.
- Master of Library and Information Science.

## Future projections

The Academic Division will foster closer working relationships with industry, increase the number of foreign undergraduate students and improve on the University's visibility worldwide.

To this end, the Division will hold discussions and invite comments from Chief Executive Officers and experts in academic management and participate in strategic careers and exhibition forums to market University programmes.

## 1.2 Board of Postgraduate Studies (BPS)

The Board of Postgraduate was established in 1985 in accordance with Statute xx (now xxi) to oversee all matters related to postgraduate studies at the University of Nairobi.

### Postgraduate student's enrolment

In 2012, BPS processed applications for 4,531 students including 238 PhD applicants.

### Graduands

In 2012, 79 PhD and 3115 masters graduated. This is the highest number of postgraduates to graduate in an academic year.

### Vetting of programmes

The Board vetted new and revised syllabi for 26 programmes .

### Award of Scholarships

In 2012, BPS allocated 127 UON scholarships and five Sasakawa scholarships. BPS also participated in the National DAAD forum for scholarship distribution.

### Strategic issues

In 2012, the Board held a workshop to discuss the strategic plan and the proposed new status of BPS. The University has over 300 postgraduate programmes and thus there is need for new management thinking and provision of updated information, records and leveraging of resources to manage the expanding student population. In terms of research, innovation and dissemination, there is need to enhance research output, and improve the coordination and facilitation of research proposal development.

## 1.3 Administration Division

The Administration Division is responsible for general administration and human resource management in the University. The main role of the division is to attract, develop and maintain high caliber qualified staff. The division is divided into two main sections: personnel and, recruitment and training.

### Staff

In 2012, the University of Nairobi had a staff complement of 5,404 members of staff out of which 1,654 were academic staff. The division routinely handled human resource matters including appointment, promotion and retirement of members of staff.

### Staff training

In 2012, the division handled training of staff including: sensitization training on anti-plagiarism for UMB members, deans, directors/co-coordinators of school/institutes; training for front office staff in central administration units on basic sign language and disability mainstreaming; sensitization on records management, customer care, performance contracting, ISO 9001:2008 and gender mainstreaming; and, training of fire marshals.

## 1.4 Board of Common Undergraduate Courses

The Board of Common Undergraduate Courses (BCUC) is one of the University's multidisciplinary departments and offers courses to all undergraduate students across the board, regardless of the degree programme that a student is enrolled in. These unique courses are effectively called "common undergraduate courses".

### Programmes offered

In 2012, the Board offered the following programmes: Communication Skills, Fundamentals of Development and their Applications in Kenya, Human Health, Law in Society, Environmental Science, Chemistry and Its Applications, Science and Technology in Development, Elements of Philosophy, Elements of Economics, and HIV & AIDS.

### Strategic issues

In 2012, the Board identified suitable course coordinators as part of the proper management of common undergraduate courses. Also, teaching and examinations in all common undergraduate courses were done on schedule.

### Future Projections

From experience, the opening of a satellite office at the School of Public Health to manage the HIV & AIDS common course was encouraging as it completely changed the running of this course. BCUC plans to open other satellite offices in the faculties, schools, or institutes that house common undergraduate courses. BCUC has also been mandated to develop a syllabus for a course on the East African community. As part of its future projections, BCUC is planning to roll out a new common undergraduate course on the East African Community Ideals.

## 1.5 Students Welfare Authority (SWA)

The Authority is the hospitality wing of the University and its core business is catering and accommodation.

### Revenue collection

In 2012, SWA realized KES.221.69 million from its operations i.e. catering, accommodation and Income Generating Activities. (IGAs) With the resources, SWA undertook projects which were aimed at improving the welfare of the students and other clients. These projects included: painting of halls at Kenya Science campus, Upper Kabete, Kikuyu, and Chiromo.

In 2012, SWA spent KES.4.8 million to purchase equipment and furniture including computers, printers, tables and chairs.

Staff were trained in records management, customer care, principles of catering, leadership, counseling and management of financial resources

SWA continued using IT to manage its activities in Human Resource (HRMIS), Finance (FIMS), and Accommodation (HAMIS). The department installed equipment in two units (CCU and Kitchen 1), for the implementation of the Catering Management Information System

SWA continued to comply with the performance contract as signed between the University Management and SWA, and cascaded the performance contract to the Strategic Management Units (SMU).

## 1.6 Centre for International Programmes & Links

The Centre for International Programmes and Links (CIPL) was established in 2002 through statute XVII as a fully fledged centre. CIPL is under the division of Research, Production and Extension (RPE).

The Centre for International Programmes and Links is charged with the responsibility of initiating, promoting, facilitating and coordinating international programmes and links, staff and student exchange programmes and mobility, collaborative research projects and worldwide networking. The Centre acts as a window for internationalization of the University of Nairobi's programmes.

### Activities of CIPL:

In 2012, CIPL facilitated the initiation and signing of 55 Memoranda of Understanding and Agreements (MOUs/MOAs) on links/and or agreements with other institutions.

The Centre registered 857 international students.

CIPL facilitated collaboration between the University of Nairobi and International institutions or organizations, staff and students to study in foreign institutions: 14 students and five staff were facilitated to study abroad. In addition CIPL facilitated one master's student to study in Malmo University, Sweden, One staff registered on a PhD sandwich programme at the University of Complutense, in Madrid, Spain.

Two visiting scholars, Prof. Thilo Becker, from Technische Universitat Darmstadt, Germany and Prof. Miguel Rui Martins, from University of Porto, Portugal were involved in one month teaching and exchange of scholarly ideas at the School of Engineering and the School of Dental Surgery, respectively. These exchanges were facilitated by the Erasmus Mundus ACP I project.

CIPL facilitated six fundraising initiatives that resulted in a number of scholarships and student exchanges with Soka University -Japan, Kalamazoo College,USA, African Economic Research Consortium (USA), Education International (EI), German Studies programme and Erasmus Mundus I & II programmes, Commonwealth Scholarships, AERC, CIPL IGU, among others.

CIPL developed and implemented a feedback mechanism for ensuring that MOUs are complied with. However, the Centre faces a challenge of facilitating and coordinating all international projects given the inadequate budget that the Centre is allocated.

### Way forward

The Center will continue to demand full disclosure of all on-going international projects in departments/schools from the respective Deans/Directors. In this connection, the Centre posted the MOU monitoring questionnaire on the UoN intranet to enable it monitor and ensure compliance with the provisions of Memoranda of Understanding and Agreements by various colleges/faculties/schools/ institutes/departments.

## 1.7 Construction and Maintenance

The Construction and Maintenance Department is one of the key central departments of the University of Nairobi. It is charged with the responsibility of managing capital projects and general maintenance of university buildings. It is also responsible for rehabilitating building structures.

## Ongoing Projects (OP)

In 2012, the department continued with the following projects: completing the lower ground and ground floor of the Examinations Centre and external painting of Wakulima hall, SMU, CAVS.

## High Priority Projects (HP)

In 2012, the department prioritized projects that included reroofing of Tana Kitchen including common room area – CAVS; conversion of Pharmaceutical Chemistry Hall into a students laboratory; boundary wall at Parklands Campus; supply, installation and commissioning of a 700KVA generator at Kenya Science Campus; lift installation for Kikuyu Campus Library.

## Completed Projects (CP)

The department completed a number of projects as follows:

- Partial completion of Lower Kabete Halls of Residence Phase II (West Wing), Biashara Hall and other learning facilities at Lower Kabete Campus.
- Mombasa Campus Renovations
- Supply and installation of one 500KVA generator set at College of Health Sciences
- Refurbishment of the Agriculture Building at College of Agriculture and Veterinary Sciences
- Drilling and equipping of a borehole at the Central Catering Unit, Main Campus
- Supply and installation of one 500KVA generator set at ADD building
- General refurbishment of UHS including laboratory, accounts office, theatres, sickbay, at senior staff clinic, and counseling room
- Fabrication and repair of notice board at Taifa hall
- Construction of boundary wall – Kasarani Plot

## Strategic issues

In 2012, the department faced the following issue that need to be resolved:

Development of state-of-the-art physical facilities that support the core functions is hampered by Public Procurement Oversight Authority (PPOA) regulations. Some issues take un-necessarily long to address.

It is difficult to attract and maintain high caliber and qualified staff due to lack of motivation and the low emoluments offered.

The department needs more facilitation for maintenance travelling, transport and communication and office expenses to achieve optimum supervisory levels.

There is need for increased funding for both Capital Development and maintenance of buildings.

## 1.8 Office of the Dean of Students

The office of the Dean of Students is primarily concerned with student affairs to helping address the holistic growth, development and wellbeing of students in support of the universities vision, mission, and objectives.

The office facilitates ongoing programmes that develop student leadership skills, give students an awareness of topical issues such as HIV/AIDS and careers, often supporting student participation in projects that encourage innovativeness and creativity, including a positive interaction with the community and the environment.

The office also addresses issues a pertaining to students with special needs and disseminates up-to- date information general to the University, and specific to the office.

### Student outreach activities

In 2012, students engaged in outreach activities that included tree planting, forums for peace through service, drug abuse and HIV/AIDS sensitisation, free medical camps ,visits to homes for children and the elderly, joint mentorship programmes, legal aid clinics, and visits to the Kenyatta National Hospital Children’s Cancer ward.

### Advocacy and Liaison Activities

The office of the Dean of Students was responsible for safeguarding students’ rights while also ensuring that students adhere to the provided code of conduct. The officers represented student welfare interests in University committees, appeal and disciplinary hearings and in special meetings and task forces.

### Placement Services

In 2012, the placement office organized 21 Career Talks attended by over 4000 students . The organizations that partnered to organize the forums included, Nation Media Group, East African Breweries, Microsoft, World Bank, CITI Bank, Kenya ICT Board, Unilever, PWC, Bamburi Cement, Equity Bank, KASNEB, NSSF, Housing Finance Company of Kenya, BAT, PKF, General Electric Company. Students got attachments in various organizations amongst these the United Nations Office In Nairobi (UNON); ICRAF, CFC, Maersk International, TNT, Bamburi, varied banks, including Cooperative Bank , Barclays, and KCB.

### Chaplaincy

In 2012, the Catholic Chaplain organized two annual leadership workshops. The Chaplain counseled students at the chaplaincy, main campus office, at St. Paul’s chapel office and other campuses, guided, encouraged and involved students in charitable activities outside campuses, for instance, visits to children’s homes, cleaning up during environmental week, car washes for fundraising for student activities and charitable activities. The Catholic Chaplaincy provided meeting space at St. Pauls Chapel for the AA (Alcoholics Anonymous) for the benefit of students and staff of the University.

In 2012, the Muslim Chaplaincy held the Annual Quran recitation competition. The Muslims Students Association of University of Nairobi (MSAUN) provided gifts to the winners of the competition. During the holiday of Eid ul Fitir, MSAUN in conjunction with the chaplaincy organized



a lunch for Muslim students of all campuses. Donations were made by students and well wishers towards the expenses of preparing the lunch.

During the month of Ramadhan (August/September 2012) MSAUN and the chaplaincy contacted Muslim organizations to provide food for the Iftar programme for the whole month of Ramadhan.

## Counseling

In 2012, over 100 students were trained as peer counselors and given life skills. These students now counsel other students who need assistance and watch out for early warning signs of possible problems.

## Challenges, recommendations and future plans

The student population has increased considerably in the past few years requiring an additional number of counsellors. The inadequacy of staff limits the outreach and impact of counselling and related services. Therefore, there is need to increase the appropriate staff and increase the numbers of student peer counsellors in each campus. Their training which should be annual , needs to be encouraged and appropriately supported and coordinated.

There is still a greater focus on Module 1 students who readily receive information and varied services from this office. Students in other modules do not readily receive this information and are not often aware of the existence of services offered by the office of the Dean of Students. There is need to increase the number of materials published and further post information concerning this office and its services on the University website.



**Students during a cleanup campaign.**

## 1.9 Estates department

Estates department is charged with the responsibility of managing the University's physical assets spread out in all campuses and several regions of the country. These physical assets include land, buildings, houses, lecture halls and classroom laboratories, libraries, student's hostels, among others.

### Updates

In 2012, the department collected KES. 118 million as rent from staff houses, Mombasa Uni-plaza and other leased spaces such as the billboards, banks and Automatic Teller Machines (ATM) sites, etc.

The Department processed and registered five title deed documents for University parcels of land and also successfully valued University of Nairobi properties.

Fire assembly points were clearly designated and marked, and internal security team and caretaker staff trained in fire fighting and safety measures. Firefighting equipment was serviced as per maintenance schedules.

## 1.20 Information & Communication Technology Centre

The ICT Center has consistently provided excellent ICT services to the University community. Indeed, The University System of Websites is under continuous improvement in terms of content, design, visibility and openness. The University of Nairobi Digital Repository has been launched to provide open access to research. The University Website policy which manages the University Web presence and content was approved by management in December 2012.

### Updates

#### University rankings

The University of Nairobi has been monitoring its performance on Webometrics and 4ICU university rankings. The University System of Websites is continuously being updated at the faculty/institute/departmental levels, with content being enriched and the design improved.

Webometrics ranking is among the first ranking that considered ranking world universities based on their websites. Webometrics ranking was based on a criterion that focused on visibility/Impact (50%) and Activity (50%) which was constituted by presence (1/3), openness (1/3) and excellence (1/3).

The staff profile website tool was also redeveloped and revamped and is now accessible through

WORLD POSITION IN 2012						
RANKING	AFRICA RANK	WORLD RANK	SIZE/ PRESENCE	VISIBILITY	RICH FILES/ OPENESS	SCHOLAR/ EXCELLENCE
Jan-12	17	1,367	631	1,794	2,761	1,724
Jul-12	14	1,435	839	2,010	4,057	1,342
Jan-13	12	1,326	1,528	2,981	950	1,346

<http://profiles.uonbi.ac.ke>. The tool provides staff with more functionality and is aesthetically appealing.

The Staff Intranet Portal was also redeveloped for document and content sharing. The new portal boosts better user experience and design in terms of access and upload of content.

## Management information systems

The finance department in collaboration with ICT center started issuing electronic pay slips (e-pay slips) via email in May 2012. The objective was to reduce stationary and administrative costs, and improve the distribution of pay slips. As of December 2012, all members of staff were receiving their pay slips through the email.

ICT implemented the Estates Management Information System for the housing registry in Estates Department. The housing registry identified a need for a computer-based information system to automate management of tenants, applications, billing and rent collection.

## Internet bandwidth usage

In 2012, UoN consumed an average of 330 Mbps through the Kenya Education Network Trust (KENET). This was occasioned by peaks of up to 500 Mbps. The consumption of bandwidth on the wifi has reached an average of 80 Mbps from 28 Mbps in 2011.

The Wi-Fi network was rolled out in College of Education and External Studies. Students are now able to access the University online resources and the internet any time of the day, using the popular chemiweb and/or chemichemi wifis.

## LAN extensions

The following LAN extension projects were completed in 2012

- ADD network upgrade – where 453 data access points were activated at a cost of KES 13.5M.



- Kenya Science Lecture theatre network extension, with a total of 120 data access points and a WIFI network at a cost of KES 6.8 M.
- Extra Mural Centers network in Garissa, Meru and Kisii. A total of 120 data access at a cost of KES 8.5Million.

## staff

The ICT Centre has a strong workforce of 120 staff distributed across the five sections: Director's Office, Management Information Systems, Communication & Data Centre, Network and Infrastructure Services, and User Support Services & Maintenance. The Centre has a strong technical staff: approximately 20 with post-graduate and 30 with undergraduate qualifications in IT and Telecommunications.

## 1.21 Planning Division

The Planning Division is located in the Vice-Chancellor's Office and is headed by the Registrar Planning. The Division supports the Vice-Chancellor's office and other related units, in the enhancement of the University's visibility in community functions and the promotion of its image locally and internationally. The Division plays a pivotal role in ensuring successful preparation of annual University of Nairobi graduation ceremonies and regular participation in national expos.

## Updates

The Division coordinated and facilitated the following activities of the University during 2012:

- The 2012 Nairobi International Trade Fair (NITF) between October 1, 2012 and October 7 2012 where the University was awarded the First Prize in Research and Development Project. The First Prize in Best Institution of Higher Learning in Developing and Advanced Technology, Second Prize for the Best University Stand, the Second Prize for the Best Engineering Based Institution of Higher Learning. Other numerous certificates were also awarded in dairy and farm produce categories.
- The 47th and 48th graduation ceremonies held on August 24, 2012 and December 7, 2012 respectively.

## Strategic issues

The Division liaised with relevant units and compiled information in respect to academic programmes which had either been reviewed or newly developed and incorporated in the 2011/2012 University Academic Calendar.

The University of Nairobi brand continued to be sustained through rituals such as the NITF, participation in universities exhibitions, prize giving ceremony and graduation ceremonies.

The University's image continued to be promoted through local and international publications and events such as Association of Commonwealth Universities (ACU), Yearbook 2012, International Association of Universities (IAU) the Europa World of Learning, and the East African Governments Handbook 2012/2013 publication.

## Challenges

The major challenges the Division faced were financial cutbacks in meeting its obligations such as buying publicity space in international publications, marketing the university and non-observance of deadlines in providing relevant information for various publications the Division processes. The Division has remained understaffed for long and this has affected the timeliness in the production of publications and other services.

## Future Projections

The Division hopes that with a review of its budget by the Management, it will be possible to market the University locally and internationally by buying publicity space in key and widely circulated publications, participating in many local diverse exhibitions and facilitation to attending international conferences such as ACU – PR – Marketing conferences where the University competes in various categories besides presenting papers. More staff would be necessary to make the Division more efficient.

## 1.22 University of Nairobi Press (UONP)

The University of Nairobi Press (UONP) was established in 1984 as a company limited by guarantee. Since it became operational in 1990, the objectives of the company have been consistent with the primary objectives of the University of Nairobi to disseminate knowledge through publications; hence, UONP's mandate is scholarly publishing. This portfolio makes UONP an important partner in research and dissemination of intellectual enquiry. Through its publications, UONP continued to mirror and extend the University's intellectual strength and reputation.

## New Titles

In the year under review, the Press published five new books as follows:

- (i) Efficiency Analysis Of Health System Units In Africa: A Data Envelopment Analysis by J.M Kirigia (ed)
- (ii) The Misiri Legend Explored: A Linguistic Inquiry into the Kalenjin Peoples' Oral Tradition of Ancient Egyptian by Kipkoech Arap Sambu
- (iii) Historical Reflections on Kenya: Intellectual Adventurism, Politics and International Relations by Macharia Munene.
- (iv) Applied Time Series Econometrics: A Special Guide For Macroeconomic Researchers With A Focus On Africa, by Alemayehe Gede, et al.
- (v) Time For Harvest: Women And Constitution Making In Kenya by Wanjiku Mukabi Kabira.

## Reprints

In the year under review, the Press reprinted five titles as follows:

- (i) Governance and Transition Politics in Kenya by P. Wanyande, M. Omosa and C. Ludeki
- (ii) Foundations of Digital Electronics by Elijah Mwangi
- (iii) Foundations of Ethics: A Critical Reader in Moral and Social Philosophy by F.O. Odhiambo
- (iv) Elements of Organizational Behavior by S.N.M. Nzuve
- (v) A Manual of Microscopic Anatomy by J.K. Kimani (ed)

## Forthcoming Books

In 2012, the Press processed the following books for release in 2013:

- (i) The Native Son: Experiences of A Kenyan Entrepreneur by J.B. Wanjui
- (ii) Mizizi: A Collection of Essays on Kenya's History in Honor of Prof Godfrey Muriuki edited by Gona
- (iii) Effective Teaching Practices by M.Z.A. Etisi
- (iv) Polymer Physics by Peter Karanja
- (v) The Indigenous Knowledge of the Ameru by M. Mugambi

## Exhibitions/Marketing Trips

In 2012 the Press undertook and attended exhibitions as follows:

Participated in the Kenyan Universities Exhibition held at Embu; the University of Nairobi Open Day; the Nairobi International Book Fair at Sarit Centre; and the Nairobi International Trade Fair.

## Partnerships

In 2012, the Press maintained its publishing partnership with the African Economics Research Consortium (AERC). A partnership was forged with the World Health organization-Africa Office, Brazzaville and the Collaborative Centre for Gender and Development.

## Strategic issues/Challenges

Generally, the university Presses must keep pace with rapid developments and a highly competitive environment and meet their obligations to the parent institutions. As is the case in other university presses worldwide, institutional support has been instrumental to the continued operations of the Press since its establishment. The shrinking government support for higher education, however, is making it increasingly difficult for UON to sustain its support for the Press. Instead, UONP is expected not only to generate sufficient revenue for continued publication but also to return regular and substantial surpluses to the University.

The rapid technological advances in the publishing industry are another challenge. There is need to invest in acquiring the technological resources and skills that will enhance the capacity of the Press to produce quality work at minimal cost.

## Way Forward

One of the major activities undertaken within the year is the initiation of the process of reviewing of the activities of the UON Press for enhanced performance. The office of the Deputy Vice-Chancellor (RPE), with support of the Vice-Chancellor's office, mandated the UNES Ltd, to engage with the Press to strategically help the UON Press in enhancing its sustainability. The following are some of areas proposed as the way forward: Implement UON Research Policy with regard to publishing; Broaden the UONP publishing mandate'; Enhance the marketing function; and staff development.

## Staff

In 2012, the Press had the following staff complement:

<b>Managing Editor</b>	<b>1</b>
<b>Editors</b>	<b>4</b>
<b>Typesetter</b>	<b>3</b>
<b>Senior Technologist</b>	<b>1</b>
<b>Marketing Manager</b>	<b>1</b>



## 1.23 Sports and Games Department

The Department is as old as the Institution itself dating back in the late 1960s. The Department has four physical Offices at the Main Campus and an office in each of the College/Campus.

### Updates

In November 2012, the University soccer team participated in a meet held at the University of Nairobi with teams from all Kenyan public and private universities to select teams for the February, 2013 East Africa Inter-Universities Games , to be held at the University of Dares salaam. The soccer teams emerged 6th overall, out of 24 teams.

During 2012, the department had an elaborate Inter Campuses / Colleges Sport programmes for students. On top of this, the University main teams such as rugby, basketball, volleyball hockey, soccer, handball, swimming, athletics represented the University in the National Leagues and Tournaments and the Kenya Universities Sports Association (KUSA) organized leagues.





## Staff

In 2012, the department had the following staff complement:

<b>Director</b>	<b>1</b>
<b>Games tutors</b>	<b>7</b>
<b>Coaches</b>	<b>2</b>

## Achievements

In 2012, the department realized the following achievements: Successful identification of talents among students, nurtured the talents, achieved elitism in a number of students, realized a wellness programme for a large number of students, through the existing sports programmes, our students were networked to the corporate world for employment, award of scholarships to excellent students particularly in the track athletics, raising the visibility of the University of Nairobi through hosting such sports, and rating at regional level with continued development and management of sports facilities.

## 1.24 University Health Services

The University Health Services (UHS) is mandated to provide quality healthcare of international standard to the University community. Our daily operations are guided by UHS Service charter.

### Achievements

In 2012, the department continuously provided quality medical services and acquired medical and theatre equipment. The department renovated and painted buildings including the senior staff clinic, theatre, laboratory and sick bay, and acquired furniture and computers in the offices and consultation rooms.

### Challenges facing UHS

In 2012, the department faced the following challenges:

- Independence in determining, sourcing, and acquiring health care resources needed for delivery of quality health services
- Rising demand for quality health care by university community against available few resource e.g. space, ambulatory services, and personnel.
- Implementation of scheme of services for all cadres of human resource for health at UHS.

# 2.00 College of Agriculture and Veterinary Sciences

## 2.1 Faculty of Agriculture

The Faculty of Agriculture started offering a BSc. Agriculture degree programme in 1970/71. The Faculty trains personnel who are broadly knowledgeable in aspects of agricultural sciences such as soil science, crop science and crop protection, horticulture, agricultural economics, agro-ecosystems management, agribusiness, range management, food science and applied human nutrition. The Faculty comprises the following departments: Agricultural Economics; Food Science, Nutrition and Technology; Plant Science and Crop Protection; Land Resource Management; and, Agricultural Technology.

### Courses Offered

In 2012, the Faculty had eight undergraduate programmes covering, agriculture; food science and technology; range management; food nutrition and dietetics; agro-ecosystems management; agribusiness; education and extension; and, horticulture.

The Faculty run 20 masters programmes covering various fields of specialization : applied economics; agricultural engineering; resource management; applied human nutrition; crop protection; soil science; genetics and breeding; livestock production systems; ecology; pathology; agronomy; horticulture; dry land agriculture, agricultural information communication and management, and land and water management.

The Faculty also run a masters and PhD program for the specializations listed above.

### Enrollment

In 2012, the Faculty enrolled the following students:

<b>BSc. Food Science &amp; Technology</b>	<b>31</b>
<b>BSc. Agriculture</b>	<b>71</b>
<b>BSc. Range Management</b>	<b>20</b>
<b>BSc. Agric. Education &amp; Extension</b>	<b>34</b>
<b>BSc. Agribusiness Management</b>	<b>34</b>
<b>BSc. Food Nutrition and Dietetics</b>	<b>33</b>
<b>BSc. Mngt. of Agro-ecosystems &amp; Environment</b>	<b>26</b>
<b>BSc. Horticulture</b>	<b>22</b>

### Graduands

In 2012, the Faculty graduated the following numbers:

<b>PhD</b>	<b>5</b>
<b>MSc.</b>	<b>60</b>

<b>BSc. Agriculture</b>	<b>39</b>
<b>BSc. Agricultural Education &amp; Extension</b>	<b>26</b>
<b>BSc. Agribusiness Management</b>	<b>27</b>
<b>BSc. Food Nutrition &amp; Dietetics</b>	<b>25</b>
<b>BSc. Food Science &amp; Technology</b>	<b>31</b>
<b>BSc. Range Management</b>	<b>13</b>
<b>BSc. Mngt. of Agro-ecosystems</b>	<b>23</b>
<b>Diploma</b>	<b>4</b>

## 2.2 Faculty of Veterinary Medicine

The Faculty of Veterinary Medicine is one of the oldest Faculties in the University of Nairobi having started training in diplomas in the 1940s. It later became a fully fledged Faculty offering degrees in 1962 and celebrated its 50 years (Golden Jubilee) since inception in April 2012. It has produced a large part of the alumni of over 2,000 at both undergraduate and postgraduate levels.

The Faculty offers five (5) degree programs namely: Bachelor of Veterinary Medicine, BSc. in Biomedical Technology and BSc. in Wildlife Management & related options, BSc. in Leather Science & Technology and BSc. in Fisheries & Aquaculture Management. In addition, it offers over 20 M.Sc. and PhD programs, 1 postgraduate certificate, 3 diplomas, and 4 certificate program.

### Enrollment

In 2012, the Faculty enrolled the following students:

<b>Bachelor of Veterinary Medicine</b>	<b>132</b>
<b>BSc. in Wildlife Management</b>	<b>14</b>
<b>Dipl in Animal Health and Prod.</b>	<b>19</b>
<b>Certificate in Artificial Insemination</b>	<b>25</b>

### Graduands

<b>PhD</b>	<b>4</b>
<b>MSc.</b>	<b>116</b>
<b>Bachelor of Veterinary Medicine</b>	<b>50</b>
<b>BSc. in Biomedical Technology</b>	<b>24</b>
<b>BSc. in Wildlife Management</b>	<b>16</b>
<b>Dip. in Animal Health and Prod.</b>	<b>11</b>
<b>Certificate in Artificial Insemination</b>	<b>8</b>

## International Students

In 2012, the Faculty had two international students drawn from Sudan and Liberia.

## Research

In 2012, faculty engaged in research that included safety in food chains, food security and animal management, toxicological analysis of herbal medicines,

## Publications

Nguta, J.M , J.M. Mbaria, D.W. Gakuya, P.K. Gathumbi, J.D. Kabasa, S.G. Kiama. (2012) Cytotoxicity of animalarial plants extracts from Kenyan biodiversity to the brine shrimp, *Artemia salina* L. (Artemiidae). *Drugs and Therapy Studies* 2012; volume 2:e12.

J.M. Nguta, J.M. Mbaria, D.W. Gakuya, P.K. Gathumbi, J.D. Kabasa, S.G. Kiama. (2012) Evaluation of acute toxicity of crude plant extracts from Kenya biodiversity using brine shrimp, *Artemia saline* L. (Artemiidae). *The Open Conference Proceedings Journal*, 2012, 3, 30-34

Gakuya F., Ombui, J., Maingi, N., Muchemi, G., Ogara, W., Ooriguer, R.C. and Alasaad, S. (2012). Sarcoptic mange and cheetah conservation in Masai Mara (Kenya): Epidemiological study in wildlife/livestock systems. *Parasitology* (2012).

Gakuya, F., Ombui, J., Henkelbach, J., Maingi N., Muchemi, G., Ogara, W., Mijele, D., and Alasaad, S. (2012). Knowledge of mange among Masai pastoralists in Kenya. *PloS ONE journal* Vol. 7, Ussue 8 (2012).

O Ombasa, P G Kareru, G. Rukunga, J Mbaria, J M Keriko, B O Owuor (2012). In-vitro anthelmintic effects of two Kenyan plants extracts against *Haemonchus contortus* adult worms. *International Journal of Pharmacological Research* 2(3):113-116

O Ombasa, P G Kareru, G. Rukunga, J Mbaria, J M Keriko, B O Owuor (2012). Mortality of *Haemonchus contortus* adult worms in *Entada leptostachya* Harms. and *Rapanea rhododendroides* (Gil) Mez. Extracts. *African. J. Ethnomed. Pract.* 1 (1):36-43

Mureithi D., Danish W.S., Ikenaka Y., Kanja L., Mayumi I. (2012). Cytochrome P4503A in RNA expression along goat and rat gastrointestinal tract. *Japanese Journal of Veterinary Research* 60 (4) 205-210.

Obonyo F.O., Prof. E.Maingi, Githigia S.M. and Nga'ng'a C.J. 2012, Prevalence, intensity and spectrum of helminthes of free range pigs in Homabay District, Kenya. *Livestock Research for Rural Development*, Volume 24, Article #48. Retrieved March 14, 2012, from <http://www.lrrd.org/lrrd24/3/obon24048.htm> (Appendix 2)

JW Aleri, TO Abuom, JM Kitaa, AN Kipyegon, CM Mulei: Clinical presentation, treatment and management of some rabbit conditions in Nairobi: *Bulletin of Animal Health and Production in Africa* > Vol 60, No 2 (2012)

JW Aleri, J Nguhiu-Mwangi, E M Mogoia and C M Mulei: Welfare of dairy cattle in the smallholder (zero-grazing) production systems in Nairobi and its environs: *Livestock Research for Rural Development* 24 (9) 2012

Abuom T.O., Njenga M.J., Wabacha J.K., Tsuma V.T. and Gitau G.K.: Incidence and risk factors

of periparturient conditions in smallholder dairy cattle herds in Kikuyu Division of Kiambu District, Kenya *Ethiop. Vet. J.*, 2012, 16(2), 85-102

Kabaka W, Gitau G K, Mariner J and Abudiku N: The use of participatory epidemiology to determine the prevalence rate and economic impacts of Ppr and Ccpp In Turkana County of Kenya. *Bull. Anim. Hlth. Prod. Afr* (2012) 60. 241 - 249

Wamalwa K., Castiello M., Munyua S. J. Muchina, Abdullahi R. G., Gathuma M. J., Ombui N. Jackson and Mogo M. E.: Commercialization of meat trade: the potential role of private sector and capacity building in quality assurance in meat export trade from regions of Somalia: *International Research Journal of Microbiology (IRJM)* (ISSN: 2141-5463) Vol. 3(3) pp. 86-93, March 2012

Kipyegon AN, HM Mutembei, VT Tsuma and JA Oduma: Effects of Ripe Carica Papaya Seed Powder on Testicular Histology of Boars: *Inter J Vet Sci*, 2012, 1(1): 1-4.

L.W. Njagi, P.N. Nyaga, L.C. Bebora, P.G.Mbuthia, and Uswege M. Minga, a research article on effect of immunosuppression on Newcastle disease virus persistence in ducks with different immune status, *International Scholarly Research Network ISRN Veterinary Science* Vol.2012, Article ID 253809. 4th January, 2012. (Appendix 3)

Ferdowsian, H.R. , Durham D.L., Johnson C.M., Brüne M., Kimwele C., Kranendonk G., Oтали E., Akugizibwe T., Mulcahy J.B. , Ajarova, L (2012). Signs of generalized anxiety and compulsive disorders in chimpanzees. *J. Vet. Behavior: Clinical Applications and Research* 7(6)

Ferdowsian H.R., Durham D.L., Kimwele C., Kranendonk, G, Oтали E. , Akugizibwe T., Mulcahy J.B., Ajarova, L, Johnson C.M. (2011). Signs of mood and anxiety disorders in Chimpanzees. *PLoS ONE* 6 (6 ) e19855

Kimwele C. N., K arisa B. K., Stokes M., Junga J. O., Hanotte O., Skilton R. A. and McElroy D. (2012). DNA species surveillance: Monitoring bushmeat poaching and trading in Kenya using partial cytochrome b gene. *African Journal of Biotechnology*: 11(78) 14276-14286

Song'oro E., Mungai A., Kimwele C., Gatebe E., Mwaniki, M., Kinuthia J., Osiemo Z. (2012). Optimization of PCR conditions to amplify mitochondrial COI fragments of wildlife sepecies in Kenya. *Asia. J. Biol and Life Sci.* 1 (3): 191-196.

Caleb O Orenge C.O., Leonard Munga L., Kimwele C.N., Kemp S., Korol A., Gibson J.P., Hanotte O., Soller M. (2012) Trypanotolerance in N'Dama x Boran crosses under natural trypanosome challenge: effect of test-year environment, gender, and breed composition. *BMC Genetics* 2012, 13:87.

## Papers presented

Nanyingi, M.O., Kiama, S.G., Thumbi, S.M. and Muchemi, G.M. Climate change vulnerability, adaptation and mitigation of livestock systems in Kenya. Joint Faculty of Veterinary Medicine and KVA conference, April, 2012, Nairobi.

Chege, S., Kitale, P., Muchemi, G. and Iqbal, M. Factors associated with ungulate morbidity and mortality in Al Ain Wildlife Park and Resort, UAE. Joint Faculty of Veterinary Medicine and KVA conference, April, 2012, Nairobi.

Erastus K. Kang'ethe, Hannu J. Korhonen, Sheila Okoth, Gatwiri Murithi, Christine K. Mburugu, Joseph K. Mungatu and Harrison N. Mburu. Animal feeds types and sources in Nandi and Makueni counties, Kenya: aflatoxins and fumonisins contamination, International silage conference, haemelinna, Finland, 2nd July 2012

J.M. Nguta. Efficacy, safety and phytochemical screening of selected antimalarial plants from Kenya. 13th International Symposium on Natural Products Chemistry and Related Biological Sciences, International Centre for Chemical and biological Sciences (ICCBS), University of Karachi, Pakistan, Sept. 22-25, 2012.

J.M. Nguta. Spectroscopic determination of cobalt and copper in grass pastures in Kabete, Kenya. 4th International Toxicology Symposium in Africa, Samora Machel School of Veterinary Medicine, University of Zambia 2-4th Sept. 2012.

J. M. Mbaria. Forensic case of lead poisoning by waste from a battery manufacturing company in Nakuru, Kenya. September 3rd, 2012: 4th International Toxicology Symposium in Africa. Held Samora Machel School of Veterinary Medicine, University of Zambia.

J. M. Mbaria. Mapping the double disease burden and complications. March 1st to 2nd, 2012: Expert meeting on indigenous peoples, diabetes and development, organized by International Diabetes Federation and World Diabetes Foundation. Held at Marriot Hotel, Copenhagen Denmark.

Rao, K.P. Kamamia E.K., Maitho T. and Pratima S. Design and formulation development paracetamol. 4th International conference on Drug Discovery and Therapy – 12th-15th February 2012, Dubai,

The Faculty of Veterinary Medicine (FVM) 8th Biennial Scientific Conference and the 46th Kenya Veterinary Association Annual Scientific Conference were held at the Safari Park Hotel, Nairobi, Kenya on April, 25 - 27 2012.

In this conference, many academic members of staff at CAVS presented papers as follows:

Nguta, JM, JM Mbaria, DW Gakuya, PK. Gathumbi, JD Kabasa and SG Kiama, "Cytotoxicity of antimalial plant extracts from Kenyan biodiversity to the Brine Shrimp, *Artemia salina* L.(Artemiidae). (Abstract 06)

Manyibe T.N and Muriuki S, Prof. PK. Gathumbi, Conservation medicine in the African context. (Abstract 047)

Gakuya DW, SG Kiama, JM Mbaria, PN Mbugua, PK Gathumbi, M Mathiu, "The potential use of moringa oleifera Lam as poultry feed supplement in Kenya." (Abstract 021)

Cooper JE, Cooper ME, Nyaga PN, Gathumbi PK, Mbuthia PG, Njagi LW, Githigia SM, "Veterinary forensic medicine: an emerging and important discipline". (Abstract 040)

Kyalo MM, PG Mbuthia, Maingi, PN. Nyaga, LW Njagi "Occurrence and lesions associated with echinostoma Revolution in free-range indigenous chickens in Kenya." (Abstract 027)

Maina JG, Mbuthia PG, Ngugi JN;, Karuri EG. "M. Effects of management practices and Economic stimulus program on fish production in Mwea Division of Kirinyaga County" (Abstract 022)

Nguhiu-Mwangi, J Mbithi, PMF Wabacha, J.K. Mbuthia PG “The challenges of balancing between productivity and claw health of dairy cows in modernized husbandry in small holder farming units.” (Abstract 018)

JKN Kuria and Gathogo SM “Dimorphic yeast fungi infections in beef cattle” in the Joint Faculty of Veterinary Medicine (FVM) 8th Biennial Scientific Conference & 46th Kenya Veterinary Association (KVA) Annual Scientific Conference & Exhibition held at the Safari Park Hotel, Nairobi, from 25th – 27th April 2012.

## Staff

In 2012, the Faculty had the following staff complement

<b>Professor</b>	<b>15</b>
<b>Ass. Professor</b>	<b>26</b>
<b>Senior Lecturer</b>	<b>25</b>
<b>Lecturer</b>	<b>29</b>
<b>Tutorial Fellow</b>	<b>16</b>
<b>Chief Technologist</b>	<b>5</b>
<b>Senior Technologist</b>	<b>19</b>
<b>Technologists</b>	<b>14</b>

Figure 1 Medicinal plant tree nurseries at Ngong established under the project on, ‘evaluation and commercialization of medicinal plants’ extracts for improved livelihoods: a case study of East Coast fever’. Funded by World Bank grant through Kenya Agricultural Productivity (KAPP) led by Prof. P.K. Gathumbi, Department of Veterinary Pathology, Microbiology and Parasitology.

Figure 2a and b Botanical garden of medicinal plants at CAVS field station established under the project on, ‘evaluation and commercialization of medicinal plants’ extracts for improved livelihoods: a case study of East Coast fever’. Funded by World Bank grant through Kenya Agricultural Productivity (KAPP) lead by Prof. P.K. Gathumbi, Department of Veterinary Pathology, Microbiology and Parasitology.

**Figure 2a**



**Figure 2b**



## 2.3 Wangari Maathai Institute for Peace and Environmental Studies

The Wangari Maathai Institute for Peace and Environmental Studies (WMI) was established in 2009 as a centre of excellence in environmental governance and its linkages with peace and democracy.



**A visit to Mau Forest. From Left: Mr. R. Kweyu, Mr. B. Muthee, Dr. T. Thenya, Prof. K. Njoroge, Dr. R. Kibugi, Mr. J. Kagombe, Prof. R. Wahome, Prof. S.G. Kiama, Ms. J. Mutune**

### Major Milestones

WMI Shares \$1.5 Million Research Grant Support from Danish Fellowship

Wangari Maathai Institute in collaboration with the University of Copenhagen, Denmark, Green Belt Movement and Kenya Forestry Research Institute secured a research grant of USD 1.5 Million from Danida Fellowship to carry out a project entitled “Stabilizing Kenya by Solving Forest Related Conflicts”. The overall goal of the project is to contribute towards stability in Kenya with a specific study on the ongoing attempt to democratize the governance of the forest resources in the Mau Forest Complex. The program provided scholarships to four (4) PhD students and also provided research funds to 15 Masters Students.



## African Natural Products Research and Training Network (RISE-AFFNET)

The program provided scholarships to six PhD students, six (6) Masters of Science students in natural products and two post doctoral research fellows. In addition, the program developed a Masters of Science curriculum on natural products and bioprospecting. It was supported by Carnegie Foundation through Regional Initiative in Science and Education (RISE).



**Wanjira Maathai** planting a tree at the New AU Complex in Addis Ababa, looking on is President Mwai Kibaki, Hon. Moses Wetangula and Prof. Kiama Gitahi

### (i). African Development Fund to finance WMI Learning Centre

WMI received \$9 Million through the African Development Bank for the learning centre, which is part of the larger development (\$40 Million) of the WMI. This was made possible through the support of the Ministry of Higher Education Science and Technology through a project dubbed "Support to Enhancement of Quality and Relevance in Higher Education Science and Technology in Selected Universities in Kenya Project". This is aimed at improving the quality of applied knowledge and skills in environmental/natural resources management. The funding supported the WMI through construction of the first phase of a teaching, learning and experiential centre to facilitate the transfer of knowledge and skills on using natural resources sustainably from the faculty to grassroots communities. The institute will also provide a community education program that will support and strengthen the capacity of professionals to serve their communities thus bridging the knowledge practice gap.

## Programmes offered

In 2012 , the Institute offered the Doctor of Philosophy in Environmental Governance and Management

## Enrollment

Five students enrolled for the Doctor of Philosophy in Environmental Governance and Management.

## International linkages and Collaborations

In 2012, WMI forged strategic alliances with the public, private and international partners in implementing its mandate. As part of the program development process, WMI established formal partnerships with the University of Copenhagen, The Energy Research Institute (TERI) in India, the United Nations Environment Program (UNEP) and the Green Belt Movement (GBM). The institute also partnered with Makerere University and Sokoine University of Agriculture in the African Natural Products Research and Training Network (RISE-AFFNET) project.

## Papers presented

Kiama S. G. Adapting to climate change and responsible stewardship of environment for sustainable development. Paper presented at the World Youth Alliance Africa Held at KICC Kenya on 29th August 2012

## Exchange Programme

Four students pursuing degree of doctor of Philosophy in Environmental Governance and Management travelled to the University of Copenhagen (UC) in Denmark for a 3 months (September – November 2012) exchange programme.



PhD students, Mr. Kamau Benard and Ms. Jane Mutune having dinner in a Danish home

## Community Outreach and Extension Services

WMI in collaboration with the University of Copenhagen and Greenbelt Movement conducted an experiential learning course at Solio Ranch from 1st to 13th of March 2012. The course was entitled "Sustainable Land Use and Natural Resource Management (SLUSE): From Theory to Practice through field based training". The course was attended by 25 students drawn from Denmark, Romania Germany, Britain, USA, Nepal, Myanmar Poland, Ethiopia, Bangladesh, Italy, and Norway.

# 3.00 College of Architecture and Engineering

## 3.1 Institute of Nuclear Science and Technology

The Institute of Nuclear Science and Technology is a unit within the College of Architecture and Engineering. It offers training in nuclear technology and energy studies and in particular, training in radiation science and renewable energy. The Institute has facilities that enable staff from the Institute as well as from other departments within the University to carry out research in radiation measurements. In 2012, the Institute supported students from departments in the University to carry out their research studies using its facilities, additionally, the government's recent interest in producing electricity using nuclear technology has greatly improved the Institute's profile.

### Programmes offered

The Institute offered a Master of Science in Nuclear Science, and diploma and certificate level programmes in radiation protection and renewable energy.

### Enrolment

In 2012, the Kenya Government, through the Ministry of Energy, sponsored 15 students to pursue master of science studies in nuclear science. An additional nine students joined this class on self sponsored basis.

### Research Activities

The Institute carried out research in several areas related to radiation science and energy studies, broadly classified into: environmental radiation measurements; trace element determination in various matrix; environmental pollution studies ; non destructive evaluation and renewable energy.

### International Links and Collaboration

In 2012, the Institute signed memoranda with the Department of Chemistry, Faculty of Science, Gothenburg University, Sweden; University of McMaster, Ontario, Canada, The International Finance Cooperation, The International Centre for Research in Agroforestry (ICRAF), The United Nations Environment Programme and The Kenya Nuclear Electricity Board were also collaborative partners.

Under the collaboration with Gothenburg, two staff members, Prof Johan Boman and Prof Annemarie Wagner delivered lectures in x-ray fluorescence (XRF) and total reflection x-ray fluorescence (TXRF). In addition, through the same collaboration, Prof. Johan Boman assisted in MSc supervision.

## Publications

Maina, M, Njenga, L, Onyari ,J.M. and Kyalo, B.N.(2012). Trace element concentrations in some traditional diets consumed in selected parts of Eastern Province of Kenya, *Journal of Environmental Protection*, 2012, 3, 617-623.

Mulwa, B.M., Maina, D.M. and Patel, J.P.(2012). Multi-elemental analysis of limestone and soil samples of Kitui South (Kenya) limestone deposits, *International Journal of Fundamental Physical Sciences*, Vol 2, No.4 pp 48 – 51.

Ngugi M. , Njagi M. J., Kibiti M. C., Maina D., Ngeranwa J. N., Njagi N. M., Njue M. W. and Gathumbi K. P. (2012). Trace elements content of selected Kenyan antidiabetic plants, *International Journal of Current Pharmaceutical Research*, Vol 4, Issue 3, 2012

Njagi J.M, Ngeranwa J.J., Njagi N.M., Kibiti M.C., Njue W.M., Maina D. and Gathumbi,P.K.( 2012). Assessment of antidiabetic potential of ficus sycomorus on alloxan induced diabetic mice, *international Journal of Diabetic Research* 2012, 1(4), 47-51.

Njagi, J.M, Ngugi, M. P., Kibiti ,C.M., Ngeranwa, N.J, Njagi, E.N.M., Njue, M.W., Maina D, and Gathumbi P.K (2012) . Hypoglycemic Effects of *Caesalpinia Volkensii* on alloxan induced diabetic mice, *Asian Journal ofPharmaceutical and Clinical Research*. Vol. 5 Supp 2, 2012.

## Consultancies

During the year under review, staff continued to work on a consultancy in the assessment of air quality in the Nairobi Metropolitan Region. This consultancy had been awarded to the Institute in November 2011 with completion expected in 2012. The Institute also had a consultancy with the International Finance Cooperation to analyse imported LED torches at the lighting laboratory based at the Institute. One staff member, Mr. James Cheselemi Wafula, was awarded a consultancy on improved sanitation, hygiene, health environmental conditions and giving standards through improved access to infrastructure including street lighting. The consultancy was funded by UN-Habitat and carried out in Puntland.

## Staff

The Institute had the following staff complement:

<b>Senior Lecturer</b>	<b>2</b>
<b>Lecturer</b>	<b>1</b>
<b>Principal Technologist</b>	<b>1</b>
<b>Chief Technologist</b>	<b>1</b>
<b>Technologist</b>	<b>4</b>

## Conferences

In 2012, staff attended conferences and presented papers as follows:

Gatari M. J presented a paper on the science program in Africa: existence scenario and associated difficulties during the Atmospheric Brown Crowd (ABC) Science Team Meeting in Beijing, China, 13 - 14th September 2012.

During the the first EPS Conference on Physics for Development Palais des Academies, in Brussels, 11-12 October 2012, staff and students presented papers on : the challenges facing young scientists in Kenya; nuclear electricity and capacity development, Kenya option for sustainability; research in basic and applied physics versus society: observations in developing countries; education system challenges in Kenya: option for basic and applied physics developmen; physics and society: observations in Kenya and recommendations; and, science, technology and development: and the role of low cost instrumentation for research and education.

## 3.2 The School of the Arts and Design

The School of The Arts and Design (STAD) is a school in the College of Architecture and Engineering (CAE) , it has a faculty of 15 academic staff and 11 support staff serving 266 students. The training programmes include certificate, short courses, undergraduate and postgraduate programmes.

Design is a discipline that serves every sector of the economy from product, interiors, landscape, graphic, industrial and fashion industries. Disciplines such as medicine, agriculture, tourism and SMEs all consume design in one form or another. Design graduates serve in various sectors of the economy including government, advertising agencies, publishing and media houses, architectural firms, banks, teaching and self employment.

### Programmes Offered

In 2012, the School offered three degree programmes: Bachelor of Arts in Design, Master of Arts in Design, and a PhD in Design. Under the three degree programmes, the students specialized in graphic design, interior design, fashion design, product design, and illustration.

### Enrollment

In 2012, the School enrolled 248 undergraduates, 17 Masters and 1 PhD student. There were several international students drawn from Brazil, Uganda and China.

### Research Activities

In 2012, staff at the School were actively involved in research activities in design, development and the Kenya vision 2030.

### International Links and Collaboration

In 2012, the school had the following links:

No	Link	Type
1	Koszalin Technical University, Poland/UoN StAD – Initiated.	MoU
2	Beijing-Nairobi International Design and Innovation Centre	MoU signed and activities to start in 2013.
3	Massachusetts College of Art and Design/StAD – Initiated.	
4	Netherlands Imports and Exports Promotion Center/UoN-StAD – Initiated.	
5	Sobourne University, Paris/StAD – initiated.	Design exchange programme
6	StAD/Viking House under Eco-Care Environmental Center to market various products from Turkana and other semi-arid areas	Collaboration in process
7	UoN-StAD/Nokia	Collaboration in process

## Graduands

In 2012, the School graduated the following numbers:

<b>Undergraduate</b>	<b>31</b>
<b>Postgraduate</b>	<b>5</b>
<b>PhD:</b>	<b>1</b>

## Staff

In 2012, the School had the following staff complement

<b>Senior Lecturer</b>	<b>1</b>
<b>Lecturer</b>	<b>7</b>
<b>Assistant Lecturer</b>	<b>1</b>
<b>Tutorial fellow</b>	<b>4</b>
<b>Graduate assistant</b>	<b>2</b>
<b>Technologist</b>	<b>1</b>

## Other Activities

Other activities undertaken at the School include field excursions, receiving visiting professionals and participating in exhibitions and seminars. In 2012, the School hosted Saki Mafundikwa a director and designer from Zimbabwe, Prof. Judith Anderson from USA, Andrej from Poland and Steve Daniels from Brown University, USA. Students attended a workshop by David Kwami, an industrial designer from Germany, and Brian Kivuti from Kuona Trust gave a talk on 3rd October 2012 to 3rd year design students. Ibuka Community was launched by design students (a group of 18 students) in StAD in March 2012. In May 2012, the School launched Inception, an annual forum and exhibition at which the best student's work is showcased and the best students are awarded prizes by industry. The school held its annual end-year exhibition of student work between the 6th and 15th of June 2012.



David Kwami (second right) posing with staff of STAD after viewing students portfolio.



Professor Judith Anderson (right), USA

### 3.3 School of the Built Environment

The School of the Built Environment is located in ADD Building off Mamalaka Road (vehicular access) opposite the YMCA (pedestrian access). It is comprised of 3 departments namely

- Architecture & Building Science
- Real Estate and Construction Management
- Urban and Regional Planning

The Dean's office which plays the coordinating role has 7 staff members.

Updates : The School recently held its elections and Prof Anyamba was re-elected as the Dean to serve for another term of two years.

#### Current Status

The School currently boasts a student population as follows :

<b>Undergraduate programmes</b>	<b>1500</b>
<b>Masters</b>	<b>100</b>
<b>Postgraduate</b>	<b>40</b>
<b>PhD</b>	<b>5</b>

#### Undergraduate Diploma/Degrees Offered

Department	Diploma/Degree(s) offered
Architecture and Building Science	<ul style="list-style-type: none"> <li>• Bachelor of Architectural Studies</li> <li>• Bachelor of Architecture</li> </ul>
Urban and Regional Planning	<ul style="list-style-type: none"> <li>• Bachelor of Arts (Planning)</li> </ul>
Real Estate and Construction Management	<ul style="list-style-type: none"> <li>• Bachelor of Arts (Land Economics)</li> <li>• Bachelor of Real Estate</li> <li>• Bachelor of Quantity Surveying</li> <li>• Bachelor of Construction Management</li> <li>• Diploma in Estate Agency &amp; Property Management</li> </ul>

#### Number of postgraduate degrees offered.

- Master of Architecture
- Master of Urban Management
- Master of Arts in Construction Management
- Master of Arts in Valuation & Property Management
- Master of Arts in Housing Administration
- Master of Arts in Planning

#### Projects

The School houses the centre for Urban and Regional Innovations project in the Urban and Regional Planning department led by Prof Peter Ngau. It is currently funded to the tune of 54 million.

## Journals

It also houses a journal titled Habitat review led by Prof. Rukwaro. And the Regional Development Journal, - Led by Prof. Ngau (DURP)

## Conferences

The School hosts the Annual East African Regional Workshop led by department of Architecture. This year the conference will be held on 26-31st August 2013 at the ADD Building. . For more information visit their website under the department.

## Strategic Issues

The School is comprised of key departments that train professionals in built environment disciplines. In an effort to reposition itself and continuously provide quality education, the School intends to hold a workshop in April 2013 to discuss reviewed curricula in all departments and also the revival of the 'Building Science' arm of the department of Architecture.

## Achievements /Challenges

The School continues to produce high calibre graduates who are absorbed in the architectural, planning and construction professions. The demand for training has tripled in the last decade but the facilities which are over 50 years old, are constrained as the enrolled students increase. There is a dire need to expand the facilities to cater for the growing demand for training in the professions of the Built Environment, a challenge which the university is yet to address.

## Future projections

The School intends to have an Alumni Chapter to tap into its vast alumni. This will increase collaboration between students and industry while fostering linkages as well as opportunities that are key to the growth of the School.

## 3.4 School of Engineering

The School of Engineering is located on the main campus, and is comprised of five departments namely: Department of Civil and Construction Engineering; Department of Electrical and Information Engineering; Department of Mechanical and Manufacturing Engineering; Department of Environmental and Bio-systems Engineering; and, Department of Geospatial and Space Technology.

The School is the oldest in the University, having started in April 1956 and to date approximately 8,000 graduates have been awarded the BSc Engineering degree as well as numerous Master of Science and PhD degrees.

The School offers a five-year undergraduate study program leading to a Bachelor of Science degree in the respective fields of study. It also offered a Master of Science degree running for two years, as well as PhD programmes. The diverse curriculum instills in students the skills, talents and creativity necessary for the varied and rapidly changing requirements. This enables them to serve in a wide variety of fields that require leadership, teamwork, decision making and problem solving abilities.



## Enrollment

In 2012, the School enrolled the following numbers:

<b>BSc Civil and Construction Engineering</b>	<b>656</b>
<b>BSc Electrical and Information Engineering</b>	<b>700</b>
<b>BSc Environmental and Bio-systems Engineering</b>	<b>241</b>
<b>BSc Geospatial and Engineering</b>	<b>173</b>
<b>BSc Mechanical Engineering</b>	<b>142</b>
<b>M.Sc</b>	<b>55</b>
<b>Ph.D</b>	<b>13</b>

## Graduands

In 2012, the School graduated the following numbers:

<b>BSc Civil and Construction Engineering</b>	<b>90</b>
<b>BSc Electrical and Information Engineering</b>	<b>96</b>
<b>BSc. Environmental and Bio-systems Engineering</b>	<b>30</b>
<b>BSc. Geospatial Engineering</b>	<b>37</b>
<b>BSc. Mechanical Engineering</b>	<b>55</b>
<b>M.Sc</b>	<b>12</b>
<b>Ph.D</b>	<b>3</b>

## International student component

In 2012, the School had 21 students at various levels drawn from Nigeria, Gambia, India, Pakistan, Cameron and Germany.



## Publications

Osano S, Impson Nyambane, Sixtus Kinyua Mwea, S.K (2012) Root tensile strength of 3 typical plants and their contribution to soil shear strength, *Journal of Civil Engineering Research and Practice* Vol. 8 No. 1 pp 57 – 7

Osano S, Mwea S.K and Gichaga F. J (2012) Pull-Out resistance of 3 different plant species and their application in slope stabilization works, *Journal of Engineering Indian Centre For Advanced Scientific and Technological Research " (Icastor) Volume 5, No. 1 January 2012*

K.V. Rop, D.B.O. Konditi, H.A. Ouma, S. Musyoki (2012) Parameter optimization in design of a rectangular micro strip patch antenna using adaptive neuro-fuzzy inference system technique in, *International Journal of Technical and Physical Problems of Engineering (IJTPE) Issue 12, September 2012, No.3 Vol. 4 pp16~23, Serial No: 0012-0403-0912*

Nyaory, G.M, K'Onditi, D.B.O, Heywood A. O., Musyoki, S. (2012) Analysis of electromagnetic field radiation from a rectangular cavity-backed slot antenna using ADI-FDTD method in *Journal of Information Engineering and Applications (JIEA@iiste.org)*, Vol 2, No. 8, September 2012, pp1~8. ISSN 2224-5782(print) ISSN 2225-0506 (online).

Dartey Manteaw, E, Abungu- Odero, N. (2012) Combined economic and emission dispatch solution using ABCPSO hybrid algorithm with valve point loading effect, in, *International Journal of Scientific and Research Publications, Volume 2, Issue 12 ISSN 2250-3153, December 2012*

PK Kimani, B. N.K. Njoroge, A.N. Gitau (2012) Use of UASB reactor in treatment of dairy industry waste water in New KCC Kitale factory – *IJE (ISSN-0974-407X Volume 5 May 2012*

Omuto CT, Nachtergaele FO, Vargas-Rojas R (2012) State of the art report on global and regional soil information: Where are we? Where to go? FAO, Rome <http://www.fao.org/docrep/017/i3152e/i3152e.pdf>. 2012.

Mulaku, G.C (2012) GIS in Education Planning: The Kenya School Mapping Project. G.C. Mulaku: *African Survey Review, Vol.43. No.323, pp567-578, October, 2011*

## Paper Presentations

In 2012, faculty presented papers in various fora as follows:

Mwangi, E. and Owala F. A robust image watermarking scheme, invariant to rotation scaling and translation attacks. A paper presented at the 16th IEEE Mediterranean Electrotechnical Conference, Tunisia, 25th March 2012 – 28th March 2012 pp 379-382

Kiragu, H, Mwangi, E. An improved enhanced degraded binary text document images using morphological and single scale retinex operations. A paper presented at the IET Image Processing Conference (IPR 2012), London 2-4th July 2012 10.1049/cp 2012.040, pp 1-6

Nyaory, G.M, K'Onditi, B.O, Ouma, S, and Musyoki S. Distribution of electromagnetic field radiation from a rectangular cavity backed slot antenna using AFI-FDTD perspective. A paper presented at the KSEEE-JSAEM International Engineering Workshop, AIAD, Juja Nairobi, August 2012.

J. P. O. Obiero\*, M. A. Hassan\* and J. Sang. Illustration of the process involved in data preparation for a watershed hydrologic model. Paper presented at the Department of

Biomechanical and Environmental Engineering, Jomo Kenyatta University of Agriculture and Technology.

Muchiri, G. The role of mechanization in agriculture. {Paper presented at Jomo Kenyatta University of Agriculture and Technology (JKUAT) on Friday 24th February, 2012.

## Research Innovation

Eng. David Masinde Munyasi, Lecturer in the Department of Mechanical and Manufacturing Engineering was given a grant of KES 250,000 by the Deans Committee to carry out a research on "Assessment of Stone Crushing Characteristics and Optimum Dynamical and Structural Design of a Stone Crusher for Small Scale Entrepreneurs"

Prof. Oduori was awarded a grant from National Council of Science And Technology of KES. 800,000/= for commercialization of social Decorticator.

Mr. Mwaka was awarded a grant of KES. 3.985 million by the National Council of Science And Technology for a project entitled "Small Scale Water Extraction in arid and semi-arid areas by wind power.

Dr. Hussein Jama was awarded a grant of KES. 250,000/- from the Dean's Committee Research Grant to carry out research entitled "Behaviour of Steel Plates Strengthened with CFRP subjected to Blast and Impact Loads".

Prof. S.M. Mutuli was awarded a grant of KES. 250,000/- from the Dean's Committee Research Grant to carry out research entitled "Design and Fabrication of a Universal Testing Rig for Laboratory Experiments on Beam Deflections - Cases of Simply Supported Beams, Cantilever Beams and Fixed Beams subjected to point loads, distributed loads and couples"

Dr. Thomas Ochuku Mbuya was awarded a grant of KES.250,000/- to carry out research entitled "Development of Recycle Friendly Aluminum Alloys for Automotive and Structural Applications.

## International Links and Collaborations

- Department of Environmental Health, safety and Emergency management (EHSEM) -Harvard University & Department of Environmental and Biosystems Engineering -UoN
- Africa Biofuel and Emission Reduction (East Africa) Ltd. & Department of Environmental and Biosystems Engineering -UoN
- Department of Environmental and Biosystems Engineering -University of Nairobi/EURA Innovation GmbH (2012)
- Food and soft laboratory, ETH Zurich, Department of health science SWITZERLAND, and University of Nairobi(ICIPE) (2011 to date)
- Biofuel Africa & Department of Environmental and Biosystems Engineering -UoN The Department also has a consultancy unit. (2011 to date)
- Department of Environmental and Biosystems Engineering -University of Nairobi / University of Siegen – Germany
- Department of Environmental and Biosystems Engineering -University of Nairobi / EurA Innovation GmbH

- Department of Environmental and Biosystems Engineering -University of Nairobi / Department of Agri-Food Science and Technology - University Of Bologna (EDULINK II) on Energy-agro food synergies in Africa: New Educational Models for Universities.

4.00

# College of Biological and Physical Sciences

## 4.1 Centre for Biotechnology & Bioinformatics(CEBIB)

The Centre for Biotechnology and Bioinformatics (CEBIB), located at the College of Biological and Physical Sciences, was founded in 2005 as a virtual centre for Research and Postgraduate Training at MSc and PhD levels in biotechnology and bioinformatics to increase capacity and develop manpower for health; agriculture; industry, environmental management and related fields.

The Centre's academic and research programmes have expanded in recent years and include the participation of visiting academics from international links and collaborating institutions. CEBIB currently houses four advanced modern laboratory facilities that comprise three Biotechnology Laboratories and a state of the art Bioinformatics Laboratory.

### Enrolment

In the year under review, the Center had a student population of 54.

### International Students:

Apart from national students, the Centre had an international enrollment of students from Rwanda.

### Graduands

In 2012, the Centre graduated the following numbers:

<b>MSc.</b>	<b>9</b>
<b>PhD</b>	<b>1</b>

### Research Activities

Multiple research activities, covering agricultural, health, industrial and environmental biotechnology were carried out at CEBIB. Research activities by staff and affiliates of the centre were implemented both within CEBIB laboratories and in laboratories of collaborating institutions through national and international links. Most of these activities were done with a training component, as such, research students form an integral part of most research activities.

## Research grants and scholarships

CEBIB researchers and collaborators endeavored to source for grants to support research activities and scholarship to support postgraduate students enrolled at the centre. In 2012, the Centre held over 10 million shillings both in grants and in kind from various agencies. Some of the institutions and organizations provided support for CEBIB research are tabulated below:

<b>AgenciesAndInstitutionsSupportingCebibResearch/ Outreach Activities</b>	<b>No Of Students Supported</b>
<b>USAID KENYA (Biotech Outreach Programme)</b>	<b>1</b>
<b>University of Manitoba, Canada</b>	<b>6</b>
<b>Bill and Melinda Gates Project</b>	<b>2</b>
<b>National Council of Science &amp; Technology</b>	<b>2 Students &amp; 2 Staff</b>
<b>Daad Scholarship</b>	<b>3</b>
<b>Africa Biomedical Centre (ABC)</b>	<b>1</b>
<b>Omega Farms</b>	<b>2</b>
<b>Phac &amp; World Federation</b>	<b>1</b>
<b>Ministry of Agriculture, Government of Kenya</b>	<b>2</b>
<b>Government of Botswana</b>	<b>1</b>
<b>Denver Foundation, USA</b>	<b>2</b>
<b>Farmchem Company</b>	<b>1</b>
<b>Catholic University of East Africa</b>	<b>1</b>
<b>University of Nairobi</b>	<b>3</b>
<b>World Federation of Scientists</b>	<b>1</b>

## Training

In 2012, the Center organised training as follows

Date	Region	Venue	Target group	No of Participants
13th to 14th January 2012	Lower Eastern	Machakos	Farmers, agric extension staff, consumer networks, NGOs, CBOs	77
20th to 21st January 2012	North Rift	Kitale	Farmers, agric extension staff, consumer networks, NGOs, CBOs	73
27th to 28th January 2012	North Nyanza	Kisumu	Farmers, agric extension staff, consumer networks, NGOs, CBOs	61

## Collaboration And International Links

CEBIB has relied on various forms of collaborations and networking arrangements in order to fulfill its core vision and mission in Biotechnology and Bioinformatics research and capacity development. Various forms of Linkages and Collaborations have been developed with international research institutions, regional and national Research and Development systems, advanced laboratories as well as universities. To enhance research and capacity development, CEBIB is currently working with the following networks and partner institutions who have provided grants, staff exchange, student exchange, equipment, sub-awards, and joint grant applications:

Date	Region	Venue	Target group
KEMRI/WELLCOME TRUST	Collaboration	Sub-Award, Staff support (APO), Provision of equipment	6
University of Manitoba-KEMRI-UNITID-CEBIB	Collaboration	Student and Staff exchange, Training of CEBIB Students, Use of Collaborator labs.	6
African Biomedical Centre (ABC)	Collaboration	Provision of laboratory equipment	2
Ben Gurion University, Israel	Collaboration	Molecular Diagnostics and antibody research and training	1 (Staff)
Denver Foundation, USA/ University of Colorado	Collaboration, Sub-Award	Full Research costs for Training 2 MSc students covered	2
University of Melbourne, Australia	Collaboration	Joint Grant applications, student and staff exchange	
Centres for Disease Control (CDC)	Collaboration	Student and Staff exchange, Training of CEBIB Students, Use of Collaborator labs.	1
Inqaba biotech, South Africa	Collaboration	Joint implementation of Short term Hands-on training	44
ILRI BecA	Collaboration	Student and Staff exchange, Training of CEBIB Students, Use of Collaborator labs.	1

## 4.2 The School of Biological Sciences (SBS)

The School of Biological Sciences (SBS) is set in a serene environment at Chiromo Campus, located some 2 km from Nairobi city. It offers training in four well-structured undergraduate degree programs, as well as M.Sc. and Ph.D. programs in over 12 specialty areas of biological science. The School is structured into the following nine thematic: Ethno-biology and Taxonomy; Biological Natural Products; Ecology and Environmental Sciences; Fresh Water and Marine, Genetics and Biotechnology; Insect Science, Microbiology; Physiology and Biochemistry, Parasitology and Immunology and, Research Development & Production.

### Programmes

In 2012, the School offered three undergraduate degree programmes, namely: BSc. (Biology), BSc. (Microbiology & Biotechnology) and BSc. (Environmental Conservation & Natural Resource Management). Two other programmes, BEd. (Science) and BSc. (Botany or Zoology, or a combination of the two), were offered jointly with the School of Physical Sciences and School of Mathematics.

### Enrolment

In 2012, the School enrolled the following numbers:

<b>BSc. (Biology)</b>	<b>192</b>
<b>BSc. (Microbiology &amp; Biotechnology)</b>	<b>238</b>
<b>BSc. (Environmental Conservation &amp; Natural Resource Management)</b>	<b>217</b>
<b>MSc.</b>	<b>78</b>
<b>PhD</b>	<b>11</b>

### International Students

In 2012, the School had 12 students in its international student component.

### Research Activities

In 2012, faculty members were involved in research activities that included:

Hybrid rice production (Sponsored by National Council of Science & Technology)

Conservation of pollinators of agricultural importance. Funded by the Global Environment Facility through the National Museums of Kenya.

Impacts of open access to mangrove ecosystems on benthic biodiversity, funded by VLIR, Belgium.

Strategies to control aflatoxin in storage funded by National Council for Science & Technology.

Breeding of maize genotypes for resistance to aflatoxin in sunnysides in Eastern & Southern Africa funded by CIMMYT.

Evaluation of the effectiveness of selected storage technologies in controlling aflatoxin accumulation and pest infestation of maize during storage in Makueni County funded by NCST.

Deployment of natural enemies in the management of plant parasitic nematodes for improved crop production funded by Dean's Grant.



Phytochemical and Antifungal investigation of *Dierania* and *Gladidus* spp against selected opportunistic fungi.

Incidence of climate change on agricultural systems in Kenya funded by Inter-establishment de de recherche pour le developement (AIRD)

Rural faming resources and practices in a changing environment funded by PPR-PAREGO

Molecular epidemiology of Theileriosis in Africa funded by German-African cooperation

Combination vaccines for control of East Coast fever in cattle funded by USDA

Identification of potential candidates for inclusion as anti tick/transmission blocking vaccines funded by Swiss center for International Agriculture/Swiss Development Corperation.

Solar power for malaria eradication funded by COMON Foundation, Netherlands.

Capacity building of rural traditional herbalists in Kenya funded by World bank/Japanese Social Development Fund.

Bovine Malignant Catarrhal Fever: Using next generation molecular tools to understand the prevalence in Kenya, funded by: NCST

## Staff

In 2012, the School had the following staff complement:

<b>Professor</b>	<b>7</b>
<b>Associate Professor</b>	<b>8</b>
<b>Senior Lecturer</b>	<b>11</b>
<b>Lecturer</b>	<b>15</b>
<b>Assistant Lecturer</b>	<b>2</b>
<b>Tutorial Fellow</b>	<b>3</b>
<b>Graduate Assistant</b>	<b>3</b>
<b>Principal Technologist</b>	<b>1</b>
<b>Chief Technologist</b>	<b>1</b>

## Graduands

In 2012, the School graduated the following numbers:

<b>BSc. (Biology)</b>	<b>35</b>
<b>BSc. (Microbiology &amp; Biotechnology)</b>	<b>48</b>
<b>BSc. (Environmental Conservation &amp; Natural Resource Management)</b>	<b>34</b>
<b>MSc.</b>	<b>16</b>
<b>PhD</b>	<b>6</b>

## 4.3 School of Computing and Informatics (SCI)

The School of Computing and Informatics (SCI) was formally established in 1977 as the Institute of Computer Science. The School is a regional leader in research, and development (R&D) and advanced education in computing and informatics.

### Programmes Offered

In 2012, the School offered programmes in computer science, information systems and applied computer science at all levels.

### Enrolment

In 2012, the School enrolled 285 students for undergraduate programmes and 433 students at master's level. The School had 30 PhD level students.

### Graduands

In 2012, the School graduated the following numbers:

<b>Diploma Computer Science</b>	<b>69</b>
<b>BSc. Computer Science</b>	<b>63</b>
<b>MSc. Information Systems</b>	<b>45</b>
<b>MSc. Computer Science</b>	<b>42</b>
<b>PhD</b>	<b>4</b>

### Research

In 2012, staff was involved in research that included:

Nairobi Sizzle-social media user research	Helnski Institute of information technology(HIT) Alto university, Finland, Nokia and Technoserve Kenya
Software Development Subcontracting and Usability Lab	Nokia Research Center (NRC)/SCI
Diaspora and Distributed Computing	UNESCO, University of Nairobi/Hewlett Packard
Liberation Technologies Program-design Thinking	Stanford University/Nokia/SCI
Regional mobile Applications lab	World Bank's Infodev/UON-Google Education
Research Commercialization	Simon Fraser University
Utilities for the Blind and visually Impaired persons	ICT Board/Kenya society for the Blind
KORDA (Kenya Oncological Research Database)	SoM/SCI
Real time, Farmer-Centric M&E Platform	NSCT
Developing Online Language Technology Resources	Ford Foundation/Nnamdi Azikwe University Nigeria/Bard College NY,USA
ANLoc –African Network for Localization	ZuZa Software Foundation
ICT Supported Distance Education in Institutions of Higher Learning	VLIR Belgium
A model for development of secure context-aware Health solution for developing countries	Dean's Committee, UON

## Staff

In 2012, the School had the following staff complement:

<b>Professor</b>	<b>1</b>
<b>Associate Professor</b>	<b>3</b>
<b>Senior Lecturer</b>	<b>4</b>
<b>Lecturer</b>	<b>12</b>
<b>Tutorial Fellow</b>	<b>4</b>
<b>Technologist</b>	<b>6</b>

## 4.4 School of Mathematics

The School of Mathematics is one of the largest Schools in the University of Nairobi. It was established in 2005 following the restructuring from the then departments of Mathematics.

The School offers specialized training in pure mathematics, applied mathematics, statistics, biometry, actuarial science, modeling and operations research. Members of the School are actively involved in advanced and applied research of problems that arise in such diverse fields as mathematical biology, AIDS testing and control, vector control, agricultural pest control, educational and manpower planning, mathematical economics, wind energy analysis, analysis of entropy of African languages, survival analysis.

### Programmes offered

In 2012, the School offered courses at undergraduate and postgraduate levels in actuarial science, mathematics, statistics, biometry, operations research, financial mathematics, and social statistics.

### Enrollment

In 2012, the School enrolled the following numbers:

<b>BSc. Actuarial science</b>	<b>499</b>
<b>BSc. Mathematics</b>	<b>130</b>
<b>BSc. Statistics</b>	<b>823</b>
<b>MSc.</b>	<b>102</b>
<b>PhD</b>	<b>16</b>

### International links and collaborations

In 2012, the School maintained its links with The Eastern Africa University Mathematics Programme (EAUMP), the Mathematical Modeling of Vector – Borne Diseases: Africa University Partnership: Programme Bilateral Agreement Mathematics Programme: Joint grant under the Kenyan – South African Research.

## Staff

Professor	3
Associate Professor	6
Senior lecturer	8
Lecturer	16
Assistant lecturer	1
Tutorial Fellow	10
Graduate Assistant	1
Technologist	2

## Graduands

In 2012 the School graduated the following numbers:

BSc. Actuarial Science	110
BSc. Mathematics	23
BSc. Statistics	21
MSc. Actuarial Science	3
MSc. Biometry	7
MSc. Social Statistics	17
MSc. Statistics	2
MSc. Applied Mathematics	2
MSc. Pure Mathematics	1
PGD Actuarial Science	9

## Publications

D. Musyoki, G. P. Pokhariyal M. Pundo(2012), "Exchange Rate Volatility in Kenya, Journal of Emerging Trends" in Economics and Management Science, vol 3(2) pp 117-122.

D. Musyoki, G.P. Pokhariyal, M. Pundo (2012), "Real Exchange Rate Volatility in Kenya". Journal of Business Studies Quarterly vol 3(4) pp 24-42

D. Musyoki, G. P. Pokhariyal, M. Pundo (2012), "Impact of Real exchange Rate Volatility on Economic Growth; Kenyan Evidence". Journal of Business Economic Horizons vol 7(1)

Musiga L.A Owino J.O and Weke P.G.O "Modelling a Hierarchica System with a Single Absorbing state". Kenya Journal of Sciences Series A, 2012.

Musiga L.A Owino J.O and Weke P.G.O "Modelling a Hierarchical System with Double Absorbing States". Kenya Journal of Sciences Series A, 2012.

Musiga L.A Owino J.O and Weke P.G.O" Modelling on Hierarchical System with Multiple Absorbing States". Kenya Journal of Sciences Series A, 2012

Ngare, Philip. "Indifference Pricing of Contingent Claims on NIG Lévy Model." Applied Mathematical Sciences 6, no. 47 (2012): 2315-2326.

Ngare Philip and Leobacher, Gunther. "On Modelling and Pricing Rainfall Derivatives with Seasonality." Applied Mathematical Finance 18,no. 1 (2011): 71-91

## Papers presented

W. Ogana. "Epidemic Potential for Malaria in Epidemiological Zones in Kenya" Arusha EAUMP conference 22nd - 25th August 2012.

P. G. O. Weke, "Linear Estimation of Location and Scale Parameters for Logistic Distribution Based on Consecutive Order Statistics" Arusha EAUMP conference 22nd -25th August 2012.

P. G.O. Weke "Estimation of IBNR Claims Reserves Using Linear Models" Arusha EAUMP conference 22nd - 25th August 2012.

L. Musiga "A Stochastic Model for Planning a Compartmental Education System and Supply of Manpower". Arusha EAUMP conference 22nd -25th August 2012.

E. Anyika and P. Weke "Financial Sector Performance Enhancers" Arusha EAUMP conference 22nd - 25th August 2012.

P. O. Ngare "On Modeling and Pricing Index Linked Catastrophe Derivatives". Arusha EAUMP conference 22nd -25th August 2012.

K. B. Kipchumba "Comparative Study of the Distributions Used to Model Dispersion". Arusha EAUMP conference 22nd -25th August 2012.

## 4.5 School of Physical Sciences

The School of Physical Sciences (SPS) is located at Chiromo Campus. It is composed of the departments of Chemistry, Geography and Environmental Studies, Geology, Meteorology and Physics. The School offers several programmes that cater for the changing needs of the society.

### Programmes

In the year under review, the School offered the following courses: science; industrial, analytical and environmental chemistry; geology; geosciences; natural and environmental disaster management; meteorology, microprocessor technology and instrumentation; astronomy and physics.

### Enrollment

In 2012, the School enrolled the following numbers:

<b>BSc.</b>	<b>590</b>
<b>BSc. Industrial chemistry</b>	<b>155</b>
<b>BSc. Analytical chemistry</b>	<b>22</b>
<b>BSc. Meteorology</b>	<b>238</b>
<b>BSc. Geology</b>	<b>327</b>
<b>BSc. Microprocessor and instrumentation technology</b>	<b>112</b>
<b>BSc. Astronomy and astrophysics</b>	<b>68</b>
<b>Postgraduate diploma</b>	<b>19</b>
<b>M.SC</b>	<b>158</b>
<b>Ph.D</b>	<b>24</b>

## International Student Component

In 2012, the School had 32 international students drawn from Botswana, Liberia, Tanzania and Zambia.

## Staff

In 2012, the School had the following staff complement:

<b>Professor</b>	<b>12</b>
<b>Associate Professor</b>	<b>14</b>
<b>Senior Lecturer</b>	<b>27</b>
<b>Lecturer</b>	<b>26</b>
<b>Tutorial Fellow</b>	<b>17</b>
<b>Assistant Lecturer</b>	<b>1</b>
<b>Principal Technologist</b>	<b>4</b>
<b>Chief Technologist</b>	<b>1</b>
<b>Technologist</b>	<b>43</b>

## Graduands

In 2012, the School graduated the following numbers:

<b>BSc.</b>	<b>120</b>
<b>BSc. Industrial chemistry</b>	<b>19</b>
<b>BSc. Meteorology</b>	<b>42</b>
<b>BSc. Geology</b>	<b>327</b>
<b>BSc. Astronomy and astrophysics</b>	<b>21</b>
<b>Postgraduate diploma</b>	<b>19</b>
<b>MSc.</b>	<b>25</b>
<b>PhD</b>	<b>1</b>

## Research activities

In 2012, staff was involved in a number of activities as follows:

East African Great Lakes Observatory (EAGLO)-Ecosystem Services for Poverty Alleviation (ESPA)

Climate variability and predictability using statistical, general circulation models (GCMs) and regional climate models (RCMs)

Development of indices for monitoring and prediction of climate variability in Eastern Africa region

Link between atmospheric aerosols, stratospheric dynamic, ozone and climate variability

Effect of urbanization on micro-environment; air pollution transport and dispersion, air quality modelling

Drought and low flows in the Nile/Flow Regime for International Experimental Network Data (FRIEND) research program

Mixed tree/crop interfaces in semi-arid environments

Applications of renewable energy in Kenya.

Applications of remote sensing in meteorology with particular emphasis on disaster management, hydrology, agriculture and environmental monitoring in support of sustainable food security.

## International links and collaborations

The School had the following international links and collaborations:

Through the department of chemistry, the School established links with the Novartis-NIBR fellowship programme, under the terms of cooperation the department was supported in the training of staff in research activities related to computational chemistry in order to generate mitishamba database. Novartis donated four computer workstations.

In collaboration with Grand Challenges Canada, a grant was provided for the pursuit of bold, creative ideas to tackle health problems. The funding amounted to \$100,000.

NCST through IFS provided a research grant amounting to KES 2,200,000 to help a member of staff in advancing research on the potential use of surfactants from commiphora.

Through the department of Geology, the School maintained links with: the Chinese Earthquake Administration; the Norwegian Petroleum Academy; Schlumberger Oilfield Services Limited; and a Memorandum of understanding for Collaboration on "Mount Kenya Lakes Project" between University of Nairobi, Kenya Wildlife Service, and University of Ghent, Belgium

Through the department of Meteorology, the School maintained collaboration with IGAD Climate Prediction and Application Centre (ICPAC); the Kenya Meteorological Department; the World Meteorological Organization (WMO); the European Meteorological Satellite (EUMETSAT); the CRC- University of Bourgogne; France Global Lightning Network (GLN; and, Centre de Recherches de Climatologie, FRE 2740 CNRS, University de Bourgogne, France. Under the partnership agreements, here will be education, training and establishment of sensor hosting and early warning networks.

Through the department of Physics, the School maintained links with Uppsala University, Sweden; Lund University, Sweden; Air Force Research Laboratory/Institute for Scientific Research (Boston College), USA; Stanford University Solar Center, USA; University of Rome (La Sapienza), Italy; Space Environment Research Centre, Kyushu University, Japan

## Publications

Endale M, Alao J.P., Akala H.M., Rona N.K., Eyase F.L., Derese S., Ndakala A., Mbugua M., Walsh D.S., Sunnerhagen P., Mate E. and Abiy Y. (2012): Antiplasmodial quinines from pents longiflora and pentas lanceolata, *planta Med*, 78, 31-35.

Gumula I., Heydenreich M., Derese S., Ndiege I.O. and Abiy Y., (2012): Isoflavones from the stem bark of platyclaphium voence, *Phytochemistry Letters*, 5, 150-154.

Onyango, A.A, J. O. Lalah and S.O. Wandiga (2012). The effects of local cooking methods

on polycyclic aromatic hydrocarbons (PAHs) content in beef, goat meat and pork as potential sources of human exposure in Kisumu City, Kenya. *Polycyclic Aromatic Compounds*. 32:5, 1-13, 656-668.

Melnick,D, Y. Garcin, J. Quinteros, M.R. Strecker, D. Olago, J.Jacques Tiercelin, Steady rifting in northern Kenya inferred from deformed holocene lake shorelines of the Suguta and Turkana basins, *Earth and Planetary Science Letters* (2012).

Melnick,D, Y. Garcin, J. Quinteros, M.R. Strecker, D. Olago, J..Jacques Tiercelin, , East African mid-Holocene wet-dry transition recorded in palaeo-shorelines of Lake Turkana, northern Kenya Rift, *Earth Planet. Sci. Lett.* (2012).

J.K. Mulwa, F. Kimata, S. Suzuki, Z.N. Kuria, An updated on the seismicity in Kenya for the period 1906-2010, *Tono Geosience Center*, 959-31, Joriniji, Izumicho, Toki-shi, Gifu, 509-5012, Japan.

Kaniu IM, Angeyo KH, Mwala AK and Mangala MJ (2012), "Direct rapid analysis of trace bio-available soil macronutrients by chemometrics-assisted energy dispersive X-ray fluorescence and scattering spectrometry", *Anal Chim Acta*, 729 (2012), 21–25

Mito CO, Boiyo RK, and Laneve G (2012), "A simple algorithm to estimate sensible heat flux from remotely sensed MODIS data", *International journal of Remote Sensing*, 33(19) (2012), 6019-6121

Otakwa RVM, Simiyu J, Waita SM and Mwabora JM (2012), "Application of Dye- sensitized solar cell technology in the tropics: effects of radiation intensity and temperature on DSSC performance", *International Journal of Advanced Renewable Energy Research*, 1(2)(2012), 17-15

Achola SO, Patel JP, Mustapha AO and Angeyo HK (2012), "Natural radioactivity and external dose in the high background radiation area of Lambwe east southwestern Kenya", *Radiation Protection Dosimetry*(2012), 1-6

Olwendo JO, Cilliers PJ, Baki P and Mito C (2012), "Using GPS-SCINDA observations to study the correlation between scintillation, total electron content enhancement and depletions over the Kenyan region", *Advances in Space Research*, 49(2012), 1363-1372

Olwendo JO, Baki P Cilliers PJ, Mito C and Doherty P (2012), "Comparison of GPS TEC measurements with IRI-2007 TEC prediction over the Kenyan region during the descending phase of solar cycle 23", *Advances in Space Research*, 49(2012), 914-912

Ayieko CO, Musembi RJ, Waita SM, Aduda BO and Jain PK (2012), "Structural and Optical Characterization of Nitrogen-doped TiO<sub>2</sub> Thin Films Deposited by Spray Pyrolysis on Fluorine Doped Tin Oxide (FTO) Coated Glass Slides", *International Journal of Energy Engineering* (2012), 2(3), 67-72

Otakwa RVM, Simiyu J, Waita SM and Mwabora JM (2012), "Application of dye-sensitised solar cell technology in the tropics: effects of radiation intensity and temperature on DSSC performance", *International Journal of Advanced Renewable Energy Research*, 1(2)(2012), 109-116

Kaniu MI, Angeyo KH, Mwala AK and Mwangi FK (2012), "Energy dispersive X-ray fluorescence and scattering assessment of soil quality via partial least squares and artificial neural networks



analytical modeling approaches", *Talanta* 98(2012), 236-240

Angeyo KH, Gari S, Mustapha AO and Mangala JM (2012), "Feasibility for direct rapid energy dispersive X-ray fluorescence (EDXRF) and scattering analysis of complex matrix liquids by partial least squares", *Applied Radiation and Isotopes*, (2012) 70(11), 2596-601

## Papers presented

Gitau, W. Spatial coherence and potential predictability assessment of intra-seasonal statistics of wet and dry spells over Equatorial Eastern Africa. A paper presented at the PICREVAT Workshop: Predictability of Climatic Information to Reduce the Vulnerability of Tropical Agriculture, Izaak Walton Inn, Embu, Feb 20-22 2012.

Muthama, N.J The relationship between atmospheric aerosols and rainfall over the three cities in Kenya. A paper presented at the BALWOIS 2012 – Ohrid, Republic of Macedonia in May 28-June 2 2012.

Ng'ang'a, N.K The relationship between atmospheric aerosols and rainfall over the three cities in Kenya . A paper presented at the BALWOIS 2012 – Ohrid, Republic of Macedonia in May 28-June 2 2012.

Muthama, N.J A review and assessment of applicability of the heat stress indices in the Kenyan weather forecast. A paper presented at the NSCT- first National Science, Technology and Innovation Week May 7-11, 2012.

Muiva CM, Sathiaraj TS and Mwabora J. Chemical bond approach to crystallisation kinetics and thermal stability in some  $\text{Se}_{90}\text{In}_{10}\text{Sbx}$  chalcogenide glassy alloys", 2nd African Materials Science and Engineering Network (AMSEN) Workshop, 21-23 March 2012, Nairobi, Kenya

Angeyo HK. Coupling energy dispersive X-ray fluorescence and scattering (EDXRFS) and chemometrics for rapid non-invasive quality assurance analysis and characterisation of complex matrix materials, 2nd African-European conference on chemometrics, November 19-23, 2012, Stellenbosch, South Africa.

Omucheni DL. Utility of multivariate chemometric techniques in multispectral image analysis: an application to malaria diagnostics, 2nd African-European conference on chemometrics, November 19-23, 2012, Stellenbosch, South Africa

Musembi RJ .Solar PV training kit, a novel community outreach program in Kenya, 1st international conference on physics for the development, 10-14 October 2012, Belgium

Nyang'onda T . Analysis of root mean square roughness of microcrystalline silicon thin films using scanning probe image processor software, International Conference on Nanoscience+Technology, July 23- 27, 2012, Paris, France.

Omucheni DL. A joint Kenyan-Ivory Coast malaria measurement campaign, International Workshop on Spectral Imaging in Remote Sensing, 17-28th September 2012, Nairobi, Kenya.

Omucheni DL, Kaduki KA and Angeyo HK. Application of principal component analysis (PCA) to multispectral imaging microscopy for malaria diagnostics, International workshop on Spectral Imaging in remote sensing, 17-28th September 2012, Nairobi, Kenya.

Mukhono P . Chemometrics assisted laser induced breakdown spectroscopy of high

background radiation areas geothermal field matrices, International workshop on Spectral Imaging in remote sensing, 17-28th September 2012, Nairobi, Kenya

Mukhono PM, Angeyo HK, Massop D and Kaduki KA . Laser induced breakdown spectroanalysis and characterization of environmental matrices utilizing multivariate chemometrics “, International workshop on Spectral Imaging in remote sensing, 17-28th September 2012, Nairobi, Kenya

Cheruiyot EK, Mito CO and Kaduki KA. “Application of multi-spectral satellite imagery in monitoring of aquatic vegetation and water quality parameters in large inland waters, International workshop on Spectral Imaging in remote sensing, 17-28th September 2012, Nairobi, Kenya

Memeu, DM, Kaduki KA and Mjomba CK. Automatic classification of plasmodium parasites using stained RGB images, International workshop on Spectral Imaging in remote sensing, 17-28th September 2012, Nairobi, Kenya

Gathoni R. Gas in scattering media absorption spectroscopy, International workshop on Spectral Imaging in remote sensing, 17-28th September 2012, Nairobi, Kenya

Aduda B. Opportunities for and challenges to energy sufficiency and sustainability in the Kenya energy sector, Building a future energy system in Africa. 10th September 2012, Stockholm, Sweden

5.00

# College of Education and External Studies

## 5.1 Kenya Science Campus

In the effort to improve access to higher education, the Government, in 2007, upgraded Kenya Science Teacher' College to a Campus of University of Nairobi to offer a Bachelor of Education (Science) programme. Consequently, the first batch of B.Ed (Science) students was admitted in October 2007.

### Programmes offered

In 2012, the Campus offered two programmes: B.Ed (Science) and B.Ed (ICT)

### Enrollment

In 2012, the student population was 587

### Graduands

In 2012, the campus graduated 185 B.Ed (Science) students.

### Other Activities

Kenya Science Campus also offers a three months bridging course in Biology, Chemistry, Mathematics and Physics to prepare students for entry into University programmes.

## 5.2 School of Continuing and Distance Education

The School of Continuing and Distance Education (SCDE) has for the last 50 years been the leader in the area of Open and Distance Learning (ODL) in Kenya. By offering its programmes using ODL methods, the School has accorded Kenyans of all walks of life flexible and affordable opportunities to further their education and training.

The School has three departments: Department of Educational Studies; Department of Extra-Mural Studies; and, Department of Distance Studies

### Programmes offered

In 2012, the School offered programmes in distance education, peace education, project planning and management, human resource management, purchasing and supplies management, public relations, sales and marketing, guidance and counseling, adult education and community development, youth in development work, open and distance learning, and youth in development work.

## Enrolment

In 2012, the School enrolled the following numbers

<b>PhD in Distance Education</b>	<b>2</b>
<b>PhD in Project Planning and Management</b>	<b>74</b>
<b>M. A. in Project Planning and Management</b>	<b>1,516</b>
<b>Master in Distance Education</b>	<b>29</b>
<b>Master of Arts in Peace Education</b>	<b>27</b>
<b>PGD in Project Planning and Management</b>	<b>5</b>
<b>PGD in Education</b>	<b>17</b>
<b>Bachelor of Education (Arts)</b>	<b>4,197</b>
<b>Bachelor of Project Planning and Management</b>	<b>299</b>
<b>Bachelor of Education (Science)</b>	<b>277</b>
<b>Diploma in Sales and Marketing</b>	<b>9</b>
<b>Diploma in Business Management</b>	<b>644</b>
<b>Diploma in Human Resource Management</b>	<b>604</b>
<b>Diploma in Public Relations</b>	<b>204</b>
<b>Diploma in Guidance and Counseling</b>	<b>19</b>
<b>Diploma in Purchasing and Supplies Management</b>	<b>579</b>
<b>Diploma in Adult Education and Community Dvt.</b>	<b>131</b>
<b>Diploma in Youth in Development Work</b>	<b>6</b>
<b>Certificate in Human Resource Mgt</b>	<b>998</b>

## International students

In 2012, the School had four students drawn from Ethiopia, Tanzania and India.

## Research activities

In 2012, staff were involved in research activities that included social media and its impact on education, Online learning and massive online open courses (MOOCS) and their role in education.

## International links & collaborations

In 2012, the School maintained links with the following institutions: the African Virtual University; Makerere University, Uganda, and, University of Coventry, UK

## Publications

Ayiro L. P. (2012). Acquisition and utilization of ICT skills among university students in sub-Saharan Africa: A case of universities in Kenya. JCODE Vol.2, Issue 1, July 2012

Gatotoh A.M. , Kariuki D. K. (2012). Group synergy: a behavioral thrust for micro-entrepreneurial growth for women in informal settlements. International Journal of Humanities and Social Science Vol. 2 No. 5; March 2012

Chandi, J.R. Women participation in miraa business and academic performance of primary school in Embu, Kenya. *International Journal of Humanities and Social Sciences*. Vol. 2, No 17, 2012

Ogutu, J, J. Mbwesa. The way forward for e-schools project in Kenyan secondary schools: lessons learnt from the Nepad e-schools project in Kenya *Journal of Continuing and Distance Education (JCODE)* Vol.2, Issue 1, July 2012

Kidombo H.J., Gakuu C.M., and A. Ndiritu. (2012). Institutional management and integration of ICT in teaching and learning in selected Kenyan schools. *JCODE* Vol.2, Issue 1, July 2012

Kimani G. N., Kara A.M., Njagi L.W., and Ruinge M.W., (2012). Students' experiences and perceptions of master of business administration programme offered through distance education at Kenyatta University, Kenya. *JCODE* Vol.2, Issue 1, July 2012

Mulwa A.S., Kyalo D.N., Bowa O., and Mboroki G. (2012). Influence of ICT infrastructure on readiness to adopt e-learning in secondary schools in Kitui District, Kenya. *JCODE* Vol.2, Issue 1, July 2012

Musumba George W., Oboko Robert O., and Elisha Opiyo, (2012). Agent based adaptive learning model for intermittent Internet connection conditions. *JCODE* Vol.2, Issue 1, July 2012

Ndagle-Nkehsera C.M. (2012). Higher teacher training colleges and ICTs in Africa: usage, challenges and impacts on teacher training. *JCODE* Vol.2, Issue 1, July 2012

Yeba J.S. Mouokuio Meno, (2012). Gender bias in attitude towards girls in the use of computers in selected schools in Central Africa. *JCODE* Vol.2, Issue 1, July 2012

Yidana I., C. Maazure, (2012). Integrating ICT into teacher education curriculum: Faculty perceptions of their technology professional development needs in two Ghanaian Universities. *JCODE* Vol.2, Issue 1, July 2012

## Staff

In 2012, the School had the following staff complement

<b>Professor</b>	<b>2</b>
<b>Associate Professor</b>	<b>1</b>
<b>Senior Lecturer</b>	<b>6</b>
<b>Lecturer</b>	<b>20</b>
<b>Tutorial Fellow</b>	<b>2</b>
<b>Chief Technologist</b>	<b>1</b>
<b>Technologist</b>	<b>2</b>
<b>Computer Technologist</b>	<b>1</b>
<b>Graphic Artist</b>	<b>1</b>
<b>Senior Technologist</b>	<b>3</b>



**Ford Foundation President Luis Ubiñas with Vice-Chancellor, Prof. George Magoha.**



**Hon. James Orengo, Minister for Lands and Hon. Chirau Mwakwere, Minister for Environment and Mineral Resources arrive for the opening session of the World Youth Forum for Sustainability.**



**The University Management Board presents the Performance Contracting Trophy to the Chancellor Dr. Joseph Wanjui**



**Launch of the Nairobi Surgical Skills Centre at Chiromo Campus.**



**Some of the pupils tutored by members of the Psychology Club.**



**Vice-Chancellor, Prof. George Magoha receives a cheque of 2.3M from Mrs Vijoo Rattansi to support needy students.**



**H.E. President Mwai Kibaki hands over the trophy of the best institution of higher learning in developing advanced technology to Committee Chairman, Dr. Fred Otiemo.**



**Justice Mutunga (centre) with Vice-Chancellor Prof. George Magoha and former Vice-Chancellor Prof. Francis Gichaga.**



**H.E. Ambassador Amina Mohammed, Assistant Secretary-General of the United Nations and Deputy Executive Director of United Nations Environment Programme (UNEP), signs the visitors book in the Vice-Chancellor's office.**



**UoN students who also double up as Google Ambassadors.**



**Wallace Chwalla realizes his dream in a meeting with UN Secretary General, Banki Moon.**



**Sayah hands over a report to a UoN member of staff.**

## Graduands

In 2012, the School graduated the following numbers

<b>PhD in Distance Education</b>	<b>4</b>
<b>M. A. in Project Planning and Management</b>	<b>507</b>
<b>Master in Distance Education</b>	<b>12</b>
<b>PGD in Project Planning and Management</b>	<b>9</b>
<b>PGD in Human Resource Management</b>	<b>7</b>
<b>PGD in Education</b>	<b>19</b>
<b>Bachelor of Education (Arts)</b>	<b>1,228</b>
<b>Bachelor of Education (Science)</b>	<b>3</b>
<b>Diploma in Sales and Marketing</b>	<b>12</b>
<b>Diploma in Business Management</b>	<b>643</b>
<b>Diploma in Human Resource Management</b>	<b>646</b>
<b>Diploma in Public Relations</b>	<b>174</b>
<b>Diploma in Guidance and Counseling</b>	<b>34</b>
<b>Diploma in Purchasing and Supplies Management</b>	<b>466</b>
<b>Diploma in Adult Education and Community Dvt.</b>	<b>125</b>
<b>Diploma in Youth in Development Work</b>	<b>7</b>

## 5.3 School of Education

The School of Education is one of the two Schools constituting the College of Education and External Studies. It comprises five administrative and teaching units namely: Department of Educational Administration & Planning, Department of Educational Communication & Technology, Department of Educational Foundations and, Department of Physical Education & Sport.

### Courses Offered

In 2012, the School offered programmes in the following specializations in education: educational administration, educational planning, curriculum studies, economics of education, education emergencies, corporate governance, sociology, history and philosophy of education, adult and continuing education, early childhood education, measurement and evaluation.

The School of Education jointly with the Faculty of Agriculture offered a Bachelor of Science in Agricultural Education and Extension.

### Enrolment

The School had four cohorts of students in each of the undergraduate degree programmes and 2 cohorts of the Postgraduate programmes broken down as follows:

<b>B.Ed (PE)</b>	<b>36</b>
<b>B.Ed (Arts)</b>	<b>2031</b>
<b>B.Ed (Science)</b>	<b>591</b>



<b>B.Ed (ECE)</b>	<b>191</b>
<b>BSc (Agri.Educ&amp; Ext)</b>	<b>87</b>
<b>M.Ed</b>	<b>1237</b>
<b>PhD</b>	<b>37</b>

## International Student Component

The School had twenty three students from Turkey.

## International Links and Collaborations

In 2012, the School collaborated with the following: Linkoping University, Sweden for programme exchange and joint research; Colorado State University with visits to explore areas of collaboration.

## Graduands

In 2012, the School graduated the following numbers:

<b>Diploma</b>	<b>7</b>
<b>Bachelors</b>	<b>741</b>
<b>PGDE</b>	<b>2</b>
<b>M.Ed</b>	<b>241</b>
<b>PhD</b>	<b>2</b>

## Staff

In 2012, the School had the following staff complement:

<b>Associate Professor</b>	<b>7</b>
<b>Senior Lecturer</b>	<b>4</b>
<b>Lecturer</b>	<b>23</b>
<b>Assistant Lecturer</b>	<b>2</b>
<b>Tutorial Fellow</b>	<b>5</b>
<b>Technologist</b>	<b>1</b>

## Publications

Rintaugu E.G.(2012) Witchcraft practices in Kenyan football: a reality or myth? International Journal of Sports Technology Management and Allied Science 1, 1:1-10

Rintaugu E.G. (2012) Analysis of factors that affect the standard of soccer in Africa: the case of East African countries .JPES, 12 1:135-139

## Papers Presented

Gunga S. Balancing local and global issues: knowledge creation, pedagogy, curriculum and professional experiences. World Federation of Associations of Teacher Education 7th – 9th November, 2012.

# College of Health Sciences

## 6.1 School of Medicine

The School of Medicine was started on 3rd July, 1967 and was officially inaugurated on 7th March, 1968. The Clinical Departments of the School are situated at Kenyatta National Hospital while the Pre-Clinical Departments are housed at the Chiromo Campus.

The School offers courses of study leading to the award of degrees of Bachelor of Medicine and Bachelor of Surgery, Bachelor of Science in Biochemistry, Bachelor of Science in Medical Physiology, Bachelor of Science in Human Anatomy, Master of Medicine, Master of Science, Doctor of Philosophy, and Doctor of Medicine and Postgraduate Diplomas.

### Staff

In 2012, the School of Medicine had the following staff complement:

<b>Professor</b>	<b>26</b>
<b>Associate professor</b>	<b>51</b>
<b>Senior lecturer</b>	<b>44</b>
<b>Lecturer</b>	<b>114</b>
<b>Assistant lecturer</b>	<b>1</b>
<b>Tutorial fellow</b>	<b>35</b>

### Courses offered

In 2012, the School offered the following courses:

- Bachelor of Science in Biochemistry
- Bachelor of Science in Human Anatomy (Intercalated)
- Bachelor of Science in Medical Physiology( Intercalated)
- Bachelor of Medicine and Bachelor of Surgery
- Bachelor of Science in Medical Laboratory Science and Technology
- Higher Diploma in Diagnostic Medical Ultrasound
- Diploma in Clinical Audiology & Public Health Otology
- Diploma in Psychotrauma Management
- Diploma in Psychoactive Substance Abuse
- Diploma in Psychiatric Social Work
- Master of Science
- Master of Medicine
- Doctor of Philosophy (Ph. D)
- Doctor of Medicine(MD)

## Enrolment

In 2012, the School enrolled the following numbers

<b>MB.CH.B</b>	<b>1937</b>
<b>BSc.. Biochemistry</b>	<b>161</b>
<b>BSc. in Human Anatomy</b>	<b>4</b>
<b>BSc. in Medical Physiology</b>	<b>3</b>
<b>Bsc. Medical Lab Sciences Technology</b>	<b>48</b>
<b>Higher Dip in Diagnostic Medical Ultrasound</b>	<b>4</b>
<b>Master of Medicine</b>	<b>557</b>
<b>Master of Science</b>	<b>114</b>
<b>PhD</b>	<b>20</b>

## Graduands

In 2012, the School graduated the following numbers:

<b>MB.CH.B</b>	<b>229</b>
<b>Bachelor of Science in Biochemistry</b>	<b>65</b>
<b>Bachelor of Science in Human Anatomy</b>	<b>4</b>
<b>Bachelor of Science in Medical Physiology</b>	<b>8</b>
<b>PhD</b>	<b>2</b>
<b>M. Med</b>	<b>120</b>
<b>MSc</b>	<b>15</b>

## Links and collaborations

In 2012, the School maintained links with the following institutions:

Charite University of Medicine, Berlin Germany , University of California, Irvine, The Nairobi Hospital, The City Council of Nairobi, The PCEA Kikuyu Hospital, CBM Christoffel-Blindenmission Christian Blind Mission, University of Colorado Denver, Children's Hospital, Kijabe Hospital, University of Washington Seattle, University of Maryland, University of Texas, Vanderbilt University, Kanazawa University of Japan, Justus Liebig University of Giessen, Giessen, Germany, Cochinchina Port Royal University Rene Descartes Paris, Oxford University, Sightsavers International/Eastern African University of Science and Technology, Uganda/Muhimbil University of Health and Allied Sciences, Tanzania/Kilimanjaro Christian Medical Centre, Tanzania/Light For The World-Austria and Operation Eyesight-Canada, Johnson of Johnson, division of Johnson Medical limited, Shiga University of Medical Science (SUMS), Japan and Yonsei University, Korea.

## Institutions that collaborate with the Kenya Aids Vaccine Initiative

The following institutions collaborated with Kenya AIDS Vaccine Initiative Project on various research activities: International AIDS Vaccine Initiative (IAVI), International Development Research Centre (IDRC), European and Development Countries Clinical Trials Partnership (EDCTP), The Governing Council of the University of Toronto, and, Clinical Research Africa Limited (CRO).

## Publications

Kimani K, Retinoblastoma. Published online at [www.thelancet.com](http://www.thelancet.com) DoI: 10.1016/S0140-6736(11)61137-9. 12th March, 2012.

Carroli G, Active management of the third stage of labor with and without controlled cord traction: a randomized, controlled, non-inferiority trial. [www.thelancet.com](http://www.thelancet.com) Published online March 6, 2012 DOI: 10.1016/S0140-6736(12)60206-2.

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Ngongo PB, Priddy F, Park H, Becker J, Bender B, Fast P, Anzala O, Mutua G, Ruzagira E, Kamali A, Karita E, Mugo P, Chombo E, Bekker LG, Roux S, Nanvubya A, Mebrahtu T. Developing standards of care for HIV prevention research in developing countries- a case study of 10 research centers in Eastern and Southern Africa.[Epub ahead of print] *AIDS Care* March 27, 2012.

Price MA, Rida W, Mwangome M, Mutua G, Middelkoop K, Roux S, Okuku HS, Bekker LG, Anzala O, Ngugi E, Stevens G, Chetty P, Amornkul PN, Sandra EJ. Identifying at-risk populations in Kenya and South Africa: HIV incidence in cohorts of men who report sex with men, sex workers, and youth. *J Acquir Immune Defic Syndr*. 2012 Feb 1; 59(2):185-93.

Blish CA, Dogan OC, Jaoko W, McClelland RS, Manadaiya K, Odem-Davis KS, Ricahrdsenb BA, Overbaugh J. Cellular immune response and susceptibility to HIV-1 super infection: a case-control study. *AIDS*. March 13, 2012 13; 26(5):643-6.

Schellenberg JJ, Card CM, Ball TB, Mungai JN, Irungu E, Kimani J, Jaoko W, Wachihhi C, Fowke KR, Plummer FA. Bacterial vaginosis, HIV serostatus and T-cell subset distribution in cohort of East African commercial sex workers: retrospective analysis. *AIDS* 2012 Jan 28; 26(3); 387-93.

Kariuki HN, Kanui TI, Yenesew A, Mbugua PM, Patel NB, Antinocietive activity of the root extracts of *Rhus natalensis* Kraus and *Senna Singueana*. *J. Phytopharmacology* 2012, 2(2) 312-317.

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El-Busaidi H, Hassan S, Odula P, Ogeng'o J, Ndung'u B. Sex variations in the structure of human atrioventricular annuli. *Folia Morphol* Vol 71, No 1.

## 6.2 School of Dental Sciences

The School of Dental Sciences (SDS) is one of the five schools that constitute the College of Health Sciences. The School of Dental Sciences started from humble beginnings in 1974 as a Department in the then Faculty of Medicine. The first group of eighteen (18) students was admitted in 1974 to pursue the course leading to the degree of Bachelor of Dental Surgery (BDS) of the University of Nairobi. The Department of Dental Surgery was upgraded in 1995 to create the Faculty of Dental Sciences, which became a School in 2005, with four Departments: Oral/Maxillofacial Surgery, Oral Medicine/Pathology and Oral/Maxillofacial Radiology; Conservative and Prosthetic Dentistry; Paediatric Dentistry and Orthodontics; and, Periodontology/Community & Preventive Dentistry

### Courses offered

In 2012, the School offered the following courses

- Bachelor of Dental Surgery (BDS)
- Master of Dental Surgery (MDS) course in Paediatric Dentistry
- Master of Dental Surgery (MDS) course in Oral Maxillofacial Surgery
- Master of Dental Surgery (MDS) course in Periodontology/ Periodontics
- Master of Dental Surgery (MDS) course in Prosthodontics
- In addition the School offered postgraduate remedial training for graduates trained outside Kenya who may wish to prepare themselves to sit for the Medical Practitioners and Dentists Board Examinations and also those practitioners wishing to gain more competence in their specialized areas of dentistry.

## Enrollment

In 2012, the School enrolled the following numbers:

<b>Undergraduates</b>	<b>149</b>
<b>Postgraduates</b>	<b>23</b>

## International links and collaboration

In 2012, the School maintained its links with Nagasaki University and Glaxosmithkline Limited

## Publications

R.Owino, M.A Masiga, P.M.Ng'ang'a F.G.Macigo. (2012) Dental caries, gingivitis and the treatment needs among 12 year olds. EAMJ Vol.87

L.K.Sang, E.Mulupi, M.K.Akama, J.M. Muriithi, F.G.Macigo, M.L.Chindia. (2012) Temporomandibular joint dislocation in Nairobi.EAMJ Vol.87

## Graduands

In 2012, the School graduated the following numbers:

<b>Bachelor of Dental Surgery</b>	<b>32</b>
<b>Master of Dental Surgery</b>	<b>4</b>

## Staff

In 2012, the School had the following staff complement

<b>Professor</b>	<b>3</b>
<b>Associate Professor</b>	<b>6</b>
<b>Senior Lecturer</b>	<b>8</b>
<b>Lecturer</b>	<b>19</b>
<b>Honorary Lecturer</b>	<b>3</b>
<b>Tutorial fellow</b>	<b>10</b>

## Community Service/Outreach

The School of Dental Sciences is a teaching and referral University Dental Hospital. Through its community dentistry outreach programmes, the School led the way in efforts to alleviate suffering, reduce the burden of oral diseases and improve oral health by providing free curative, preventive and promotive dental services to the needy members of the public who have little or no access to oral health care facilities particularly in remote areas of the country. Through Operation Smile, members of the School participated in the annual reconstructive surgical campaign that benefited thousands of children and adults with cleft lip and palate and other oral and maxillofacial anomalies.

The School conducted extensive research in a wide range of disciplines and provided answers to many previously unanswered questions in areas such as fluorides and fluorosis, malocclusion and child dental health, epidemiology and prevention of oral diseases, oral cancer and pre-

cancer, oral and maxillofacial traumatology, head and neck oncology as well as socio-cultural influence on oral health.

## Papers Presented

In 2012, the School held a research day where the following papers were presented

A comparative study to assess interleukin I Polymorphisms and their relationship with chronic periodontitis in two Kenyan communities. E.G.Wagaiyu, T.Kaimenyi, P.Wanzala

Investigation of the cellular basis of poor clinical outcome for locally advanced oral squamous cell carcinoma treated with conventional cytotoxic therapy. J.F.Onyango, G.Opinya, J.Ochanda

Pattern of periodontal diseases in persons living with HIV/AIDS at KNH outpatient center. Riro S.E.G.Wagaiyu, Mutave R.J

Evaluation of the reproducibility of the selected colour of metal ceramic restorations. Angela O, Maina S, B.K.Kisumbi, A.Kassim

Improving child health in Nairobi through education of nurses on teething. R.Mutave, L.W.Gathece, G.Omoni

Dental diseases burden and treatment needs among 13-17 year olds with dental fluorosis compared to those without dental fluorosis in Kajiado North District. Mavindu M.

Periodontal status of postpartum women in relation to preterm birth and low birth weight at Kenyatta National Hospital. Wangari N.V, N.Matu, R.Mutave

Mesiodistal tooth widths of permanent teeth in 13-15 year old Kenyans. Nduguyu K.P.Nga'ng'a, J.L.Ngesa

Dental caries and gingivitis by tooth type among 13-15 year olds with varying severity of fluorosis. E.Mutungu, G.Opinya, M.Masiga

A comparative study of the nutritional status of children aged 3-5 years with severe childhood caries and caries free in Kisumu, Kenya. Wasunna D, Masiga M, Ngatia E, Mutave R

Disqu岸ire gingivitis and autoimmune bullous dermatoses at the Kenyatta National Hospital. A. Alumeru, E.G.Wagaiyu, B.Mua

Incisive papilla as biometric guide among Kenyans of African descent. C.Ogada, Omondi B.I, Mutave R.

A clinical radiological and microbiological study of root filled teeth with post-treatment disease. F.Nyaata, W.Lesan, T.Dienya, E.Dimba, F.Mutua

Periodontal health status in relation to glycaemic profile among type 2 diabetic patients at Kenyatta National Hospital. Kithela S, N.Matu, B.N.Mua

Partial results presentation of the internal and external root morphology of second permanent molars of a Kenyan population. Katoto I, S.Maina, F.Otieno, W.Njir

Serum folate levels in patients with head and neck squamous cell carcinoma presenting for management at the Kenyatta National Hospital. M.Ikito, J.F.Onyango, M.L.Chindia, K.Christine

Reliability of nasal and inner-cathal width(s) in determining the mesio-distal width(s) of the maxillary anterior teeth in a Kenyan population. A.Ariemba, M.Kibugi, L.W.Gathece, S.Maina

Post treatment complications and management and their impact on treatment outcomes among periodontal patients at the University of Nairobi Dental Hospital. Wambugu J, Matu N.K



## 6.3 School of Nursing Sciences

The School of Nursing Sciences is one of the Schools of the College of Health Sciences. It was initially a department in the Faculty of Medicine for close to 38 years before being fully established as a School in January 2006 to offer training of nurses both at undergraduate and postgraduate levels. The School has four thematic areas namely: Medical/ Surgical Nursing, Obstetrics / Midwifery and Gynaecological Nursing, Community Health Nursing and Nursing Education and Administration.

### Courses offered

In 2012, the School run two programmes namely Bachelor of Science in Nursing (BSc.N) and Master of Science Degree in Nursing (MSc.N).

### Enrollment

In 2012, the School enrolled 462 students for the Bachelor of Science in Nursing and 41 students for the Master of Science Degree in Nursing (MSc.N) . in addition the school enrolled four candidates for the Doctorate degree in Nursing (PhD Nur.)

### Graduands

In 2012, the School graduated the following numbers

<b>BSc. Nursing</b>	<b>73</b>
<b>MSc. Nursing</b>	<b>14</b>

### Staffing

In 2012, the School had the following staff complement

<b>Associate Professor</b>	<b>1</b>
<b>Senior Lecturer</b>	<b>3</b>
<b>Lecturer</b>	<b>14</b>

### Activities

The School participated actively in the activities of the Nursing Council of Kenya which is the National regulatory body in Kenya.

Other activities included mounting e-learning programme for the upgrading of Diploma Registered nurses to BSc.N level in collaboration with the African Medical and Research Foundation (AMREF) and conducting free medical camps in collaboration with the National Nurses Association of Kenya (NNAK)

### Research interests

In 2012, faculty was engaged in research that included, nurse attitude towards adolescents with sexual and reproductive health problems, substance abuse, health systems management, adolescent reproductive health and antenatal, post natal care and child health care.

### International links and collaborations

The School signed memorandum of understanding with Salford University and the Africa Medical Research Foundation (AMREF)

## 6.4 School of Pharmacy

The School of Pharmacy started as a Department of Pharmacy in the Faculty of Medicine in 1974 and attained faculty status in July 1995. It is one of the five Schools which constitute the College of Health Sciences of the University of Nairobi. The School comprises of three departments: Department of Pharmaceutical Chemistry, Department of Pharmacology & Pharmacognosy and Department of Pharmaceutics and Pharmacy Practice. The School is charged with the mandate of training high caliber pharmaceutical health care personnel who provide Pharmaceutical Services to the community, industry and conduct innovative research in relevant areas.

### Courses offered

In 2012, the School offered the following programmes:

- Bachelor of Pharmacy
- Master of Pharmacy in Clinical Pharmacy
- Master of Science in Pharmacognosy and Complementary Medicine
- Master of Pharmacy in Pharmaceutical Analysis
- Postgraduate Diploma in Pharmaceutical Analysis
- Master of Pharmacy in Industrial Pharmacy
- Master of Pharmacy in Pharmacovigilance & Pharmacopidemiology
- Master of Science in Molecular Pharmacology

### Enrollment

In 2012, the School graduated the following numbers:

<b>Postgraduate</b>	<b>66</b>
<b>Undergraduate</b>	<b>370</b>

### International student component

In 2012, the School had six international students drawn from Tanzania, Uganda and Cameroon.

### Research activities

In 2012, members of staff were involved in research activities that included: quality studies of herbal products on the Kenyan market, formulation and development of dosages to treat malaria, evaluation studies of the medicinal properties of certain products, photochemical investigations into the activities of various herbal compounds.

### International links and collaborations

In 2012, the school maintained its links with Tianjin University of Traditional Chinese Medicine and Aibst of Zimbabwe, Katholieke Universiteit Leuven, Belgium, Kings College, Dept. of Pharmacy in London UK, Mercer University, Kansas University, University of Cape Town, South Africa (through GIBEX project), University of Cape Town, South Africa (KeSA- NCST-NRF grant - Anti-helmintic Activity Bio-prospecting)

In addition, the School maintained links with industry on drug analysis and good manufacturing practices including: Namm Pharmaceutical Ltd, Galaxy Pharmaceuticals Ltd., Dawa Limited, YSP Industries, Medox Pharmaceuticals Ltd, Medisel (Kenya) Ltd, Norbrook Kenya Ltd., Medipharm Industries Ltd., Kampala, Uganda., Pfizer Laboratories, PSA International and Kenya Agricultural Research Institute (KARI)

## Staff

In 2012, the School had the following staff complement

<b>Professor</b>	<b>5</b>
<b>Associate Professor</b>	<b>3</b>
<b>Senior Lecturer</b>	<b>8</b>
<b>Lecturer</b>	<b>15</b>
<b>Tutorial Fellows</b>	<b>10</b>
<b>Principal Technologist</b>	<b>3</b>
<b>Chief Technologist</b>	<b>3</b>
<b>Senior Technologist</b>	<b>7</b>
<b>Technologist</b>	<b>10</b>

## Graduands

In 2012, the School graduated the following numbers:

<b>Undergraduate</b>	<b>73</b>
<b>Postgraduate</b>	<b>5</b>

## Papers presented

Member of Staff	Title of Paper	Venue	Date
K.A. Sinei, J.W. Mwangi, A.M. Mwaura, R.W. Munenge:	The contractile action of <i>Adenia globosa</i> Engl. on isolated preparations of mammalian smooth muscle	National Council for Science and Technology, KICC Nairobi	7th – 11th May, 2012.
M. Oluka:	Annual review meeting 2012 of the University of Nairobi STD/Aids collaborative group Presented a paper entitled: Cyp2b6 pharmacogenetics and nevirapine clinical outcomes in HIV-1 seropositive Kenyan women receiving antiretroviral therapy	at Mayfair Court Southern Sun, Nairobi from	Mon 23rdJan – Fri 27th 2012.

## Publications

Maitai C.K.: A Cascade of biochemical and physiological markers East Central Afri. J. Pharm Sci., Vol 15(2012) 1-2.

Nyamu D.G., Maitai C.K, Trends of acute poisoning cases at the Kenyatta National Hospital, Nairobi. East Central Afri. J. Pharm Sci. Vol. 15 (2012) 29-34.

E. M. Guantai and K. Chibale. (2012) 'Natural product-based drug discovery in Africa: the need for integration into modern drug-discovery paradigms. In: Drug Discovery in Africa, eds. Chibale K., Masimirembwa C. and Davies-Coleman, M., Springer: Germany (Pg. 101-126).

P.A. Tarkang, F.A. Okalebo, G. A. Agbor, N.Tsabang, A. N. Guantai, G. M. Rukungu. Indigenous knowledge and folk use of a polyherbal antimalarial by the Bayang community, South West Region of Cameroon. J. Nat. Prod. Plant Resour., 2012, 2 (3):372-380

N. N. Nyamweya and L. J. Tirop Assessment of Human Pharmaceutical Product registered in Kenya by route of administration and type of dosage from East Central African Journal of Pharmaceutical Sciences.

E. N. Matu, P.G. Kirira, E. V.M. Kigondu, E. Moindi and B. Amugune (2012). Antimicrobial activity of organic total extracts of three Kenyan Medicinal plants. Afr. J. Pharmacol. Ther. 1(1): 16-20.

## 6.5 School of Public Health

The School of Public Health was established in September 2010 following the approval by Senate and the appointment of the Director and subsequent appointment of Thematic Heads. The role of the School is to develop and strengthen public health training, research capacity and provision of services to the local and international communities.

### Programmes offered

In 2012, the School offered courses as follows: Community Health Year 2 and 4 service course for MBChB programme, Master of Public Health (MPH) and Master of Science in Health Systems Management (MSchSM)

### Enrolment

In 2012, the School enrolled the following numbers:

**Masters in Public Health: 73**

### International students

In 2012, the School had six international students drawn from Tanzania, Ethiopia, South Sudan and Nigeria.

### International links and collaboration

In 2012, the School maintained links with American the University Abroad on broad areas of teaching and research, the Regional AIDS Training Network to offer the Advanced Health Research Methods Course, University of Kinshasa (School of Public Health) , University of Lubumbashi (Faculty of Medicine), Jimma University College of Health and Medical Sciences, Jimma University College of Agriculture and Veterinary Medicine (School of Veterinary Medicine), Mekelle University (College of Veterinary Medicine), National University of Rwanda (School of Public Health), Umutara Polytechnic (Faculty of Veterinary Medicine), Muhimbili University (School of Public Health and Social Sciences), Sokoine University of Agriculture (Faculty of Veterinary Medicine), Makerere University (School of Public Health), Makerere University (College of Veterinary Medicine, Animal Resources & Bio-security)-COVAB, University of Minnesota, USA, and Tufts University, Boston, USA

### Staff

In 2012, the School had the following staff complement:

<b>Professor</b>	<b>1</b>
<b>Associate Professor</b>	<b>4</b>
<b>Senior Lecturer</b>	<b>3</b>
<b>Lecturer</b>	<b>8</b>
<b>Tutorial Fellow</b>	<b>1</b>
<b>Technologist</b>	<b>1</b>

### Graduands

In 2012, the School graduated the following numbers:

<b>Masters in Public Health:</b>	<b>14</b>
<b>PhD in Public Health:</b>	<b>2</b>

## Publications

Tomedi A, Tucker K, Mwanthi MA A strategy to increase the number of deliveries with skilled birth attendants in Kenya. *Int J Gynaecol Obstet.* 2013 Feb;120(2):152-5. doi: 10.1016/j.ijgo.2012.09.013. Epub 2012 Nov 26.

L.A; Tomedi A; Campbell A; Morales C; Mwanthi M A. A community health worker home visitation project to prevent neonatal deaths in Kenya. *Journal of Tropical Pediatrics* 2012; doi: 10.1093/tropej/fms 034.

## 6.6 Institute of Tropical & Infectious Diseases (UNITID)

### Courses Offered

The Institute only offers Postgraduate course, these include: Postgraduate Diploma students in Biomedical Research Methodology (PGDRM), Master of Science in Tropical and Infectious Diseases (MSc. TID), Master of Science in Medical Statistics (MEDSTAT) and PhDs.

### Enrollment

In 2012, the Institute enrolled the following numbers:

<b>Postgraduate Diploma in Biomedical Research Methodology (PGDRM)</b>	<b>6</b>
<b>MSc. Tropical and Infectious Diseases (MSc. TID)</b>	<b>18</b>
<b>MSc. Medical Statistics (MEDSTAT)</b>	<b>15</b>
<b>UNITID Fellowship</b>	<b>14</b>
<b>PhD</b>	<b>7</b>

### Short courses

A 2-weeks international course in Multi-Variable Statistics Using Stata 12 Software was held from 20th August, 2012 to 31st August, 2012. Participants were drawn from Kenya (9), Ethiopia (1), Zimbabwe (1), Uganda (1), Gambia (1), and Tanzania (1). Sponsorship was from Danida through the DBL Centre for Health Research and Development, University of Copenhagen.

Micro-Research workshop: A two week workshop on community based research was held from 15th October, 2012 to 28th October, 2012 in collaboration with staff from Dalhousie University, Nova Scotia, Canada.

In the fellowship programme, short courses included: the HIV Epidemiology course held between 30/1/2012 to 1/2/2012 in Nairobi which trained 45 participants; the Monitoring and Evaluation for Health Programs course held between 13/2/2012 to 15/2/2012 in Nairobi which trained 42 participants, the Human Capital Development for Health Programs course held between 5/3/2012 to 7/3/2012 which trained 40 participants, the Project Planning and Implementation course held between 28/3/2012 to 30/3/2012 in Nairobi which trained 42 participants.

### Research activities

In 2012, faculty was involved in research as follows:

Alleviating childhood malnutrition by improved utilization of traditional foods (WINFOOD)

Treatment of childhood under nutrition: Development of and access to improved foods (TREATFOOD)

A clinical trial agreement on phase III open label randomized comparative study to evaluate *Azithromycin + Chloroquine and Sulphadoxine + Pyrimethamine* combinations for intermittent preventive treatment (IPT) on *falciparum* malaria infection in pregnant women in Africa. A multicentre clinical trial project involving Siaya District Hospital. Protocol #. A06611158 – 1004

A clinical trial agreement on phase III open label, non comparative study to evaluate parasitological clearance rates and pharmacokinetics of *Azithromycin* and *Chloroquine* following administration of a fixed dose combination of *Azithromycin* and *Chloroquin* (AZCQ) in asymptomatic pregnant women with *Plasmodium falciparum* parasitaemia in sub-saharan Africa. Protocol #. A0661201 – 1004

Harnessing mobile phone usage for HIV and horizontal health systems improvements (PMTCT)  
A double blind, randomized trial of monthly treatment with topical metronidazole co-formulated vaginal suppositories versus placebo for preventing vaginal infections in HIV seronegative women  
Increased access to quality comprehensive HIV prevention services for most at risk populations in Nairobi County

Pregnancy & HIV risk infections (HAPI Study) Nyando District, Kisumu

Gender – Specific combination HIV prevention for Youth in High Burden settings (MP3 – Youth)

## Collaboration and linkages

The following links and partnerships were established in 2012:

University of Copenhagen, Denmark, Centre for Disease Control & Prevention (CDC), Pfizer Laboratories, South Africa. At local level linkages were maintained with Pumwani Maternity Hospital, Tigon District Hospital, Kenya Medical Research Institute (KEMRI), Kenyatta National Hospital and Siaya District Hospital

## Graduands

In 2012, the Institute graduated the following numbers:

<b>MSc. Tropical and Infectious Diseases</b>	<b>9</b>
<b>MSC. Medical Statistics</b>	<b>5</b>
<b>Postgraduate Diploma in Research Methodology</b>	<b>12</b>
<b>UNITID-Fellowship Graduates in 2012</b>	<b>12</b>

## Publications

J. M. M'Imunya, T. Kredo and J. Volmink: Systematic review: patient education and counseling for promoting adherence to the treatment of active and latent tuberculosis: Cochrane Data Base of Systematic Reviews 2012 Issue 5

Mutua F. M., J.M. M'Imunya, Wiysonge C., Shey U: Systematic review: genital ulcer disease treatment for reducing sexual transmission of HIV: Cochrane Data Base of Systematic Reviews 2012 Issue 3

# College of Humanities and Social Sciences

## 7.1 Faculty of Arts

The Faculty of Arts is one of the largest faculties in the University. The Faculty has nine departments: linguistics and languages, communication skills, literature, geography and environmental studies, history and archaeological studies, psychology, sociology and social work, political science and public administration, and philosophy and religious studies and one sub –department of French.

### Academic Programs

The Faculty offered a large number of competitive, demand-driven programs ranging from diploma, bachelor, master, post-graduate diploma and Ph.D. The diploma programs include those in: Social work and social development, criminology and social order, cultural tourism, natural resource management, philosophy and psychology. Apart from the mainstream bachelor programs leading to major or minor in various departments, there were three professional programs: psychology counseling, social work and criminology and criminal justice.

### Graduands

In 2012 the Faculty graduated 11 Ph.D., 199 Masters, 23 Postgraduate Diploma, 1,372 Bachelors and 193 Diploma students.

### Enrolment

In 2012, the Faculty enrolled the following numbers:

<b>Certificate</b>	<b>44</b>
<b>Diploma</b>	<b>228</b>
<b>Bachelors</b>	<b>6903</b>
<b>Postgraduate diploma</b>	<b>55</b>
<b>Masters</b>	<b>1073</b>
<b>Phd</b>	<b>26</b>

### Research activities

Chitere, P.O. Paratransit transport mode in the City of Nairobi, Funded by the African centre for Excellence for Studies in Public and Non-motorized Transport (ACET), University of Cape Town.

Kabira, W. M. Budget proposals by the African Women Studies Centre (AWSC) for improvement of the national food security in Kenya presented at public budget hearings of the Parliamentary Budget Committee. AWSC was allocated 81million under the SUNY-Kenya 1 year project

Ocharo, R.M Scoping study in Kenya to determine the level of risks and vulnerabilities to schools and hospitals to seismicity: The case of Rift Valley Provincial Hospital Nakuru and Nakuru High School. Commissioned by the United Nations International Strategy for Disaster Reduction (UNISDR)

Owiti L. Rapid assessment of the impact of the Sinai fire tragedy and development of a program for psychosocial support for the victims

Mutie, P.M. Making sense of ethnic identity in Kenya towards cohesion, funded by the National Cohesion and Integration Commission, Nairobi

Wasamba, P. *Voices from the Cities: a comparative study on urbanization in Kenya and Korea*, supported by the academy of Korean studies, Seoul. (USD 82000)

Zani A. Water harvesting and assessment of the business enterprises of Kenyan women.

## Awards

In 2012, Mwangi, Iribe Mwangi was awarded the Translators Without Borders (TWB) Empowerment Award, for his work on increasing language capacity within a critical region of the world.

## Publications

Ayiemba, E.H.O.(2012) Effects of technological development on rural livelihoods in the developing world: A case study of effects of a large scale multipurpose dam on malaria prevalence in a rural community around Kenya's largest dam. *European Scientific Journal* 8 (14): 132-143

Businge, M.S.I. Maina, E. Ayiemba, M.Odongo P. Maingi, P. Nderitu & S. Ngweyo (2012) Socio-economic status, poverty, gender and environment: supporting the development of Vision 2030". In Kenya (ed), *Kenya State of the Environment and Outlook 2010*. Malta: Progress Press, pp 24-45

Chitere, P.O. 2012 The Community development movement in Africa during the colonial period (1945-63) with emphasis on Kenya. In: J. Mangut and T. Wuam, eds, *Colonialism and Transition to Modernity in Africa*. Ibrahim Babangida University, Lapai: J. Mangut and T. Wuam Publishers

Ebert, R. and R.M.J. Oduor(2012) The concept of human dignity in German and Kenyan constitutional law, thought and practice: A Journal of the Philosophical Association of Kenya, Vol.4 No.1, pp43-73. <http://ajol.info/index.php/tp/index>

Indangasi, H. (2012) *The joy of poetry-Kenya*. Nairobi: Literature Bureau,

Indangasi, H.(2012) *Flying colours in English composition for secondary schools-Kenya, Revised Edition.*, Nairobi: Literature Bureau

Kabira, W.M., (2012) *A time for harvest: women and constitution making in Kenya, 1992-2010*, Nairobi: University of Nairobi Press 2012

Kithiia, S.M. (2012). Water quality degradation trends in Kenya over the last decade. In: Kostas Voudouris and DimitraVoutsas (eds), *Water Quality Monitoring and Assessment*. Croatia: Intech Publishers, pp. 509-526

Misaro J. & D. K. Kinyanjui (2012) Community development and mainstreaming of occupational health and safety in Kenya. *Journal of Emerging Trends in Educational Research and Policy Studies (JETERAPS)* 3(6): 909-914

Mugambi, J.N.K. (2012) Justice, participation and sustainability as prerequisites for peaceful coexistence". In: Jess N.K. Mugambi and David W. Lutz, eds., *Applied Ethics in Religion and Culture: Contextual and Global Challenges*, Nairobi: Acton, 2012.

Mugambi J.N.K(2012) Creation and salvation in theologies of liberation and reconstruction. In: Isaac M.T. Mwase and Eunice K. Kamaara, eds, *Theologies of Liberation and Reconstruction*, Nairobi: Acton, 2012, pp. 369-84



- Mugambi J.N.K. (2012) Foreword to Concepts of God in Africa, Second Edition, by John S. Mbiti, Nairobi: Acton, 2012
- Muriuki, G. (2012) Abunuwasi Mwami (ed.), The federal question of Buganda in Uganda within the context of the East African political federation – A Report of the Kituo Cha Katiba Fact-Finding Mission, to Uganda. Kampala: Fountain Publisher
- Musingi, J.B.K. & Odhiambo, T.(2012) “Kwani? and the imaginations around re-invention of art and culture in Kenya’. In: Eastern African Intellectual Traditions edited by James Ogude, Grace Musila and Dina Ligaga, Africa World Press, 2012
- Mwangi, I.(2012) Phonology of borrowed lexicon in standard Kiswahili”. In: Reyono Journal of Interdisciplinary Studies. Vol.1 No. 2. pp 59-74
- Mwangi, I. 2012 Phonological adaptation of Kiswahili loanwords in Gi-Gichugu dialect of Gikuyu language: an application of source - similarity model in Baraton Interdisciplinary Research Journal (BIRJ). Eldoret: Baraton University Press. Vol. 2 No. 2. pp. 49-62 <http://www.ueab.ac.ke/BIRJ/?p=1008>
- Mwangi, I.(2012) A case for the harmonization of Kikuyu, Kiambu and Kimbeere Phonology and Orthography. In Ogechi N. O. et. al, The Harmonization and Standardization of Kenyan Languages: Orthography and Other Aspects. Cape Town: Centre for Advanced Study of African Societies (CASAS), Chapter 2, pp 20-38
- Mwangi, I.(2012) The global place of Kiswahili: yesterday, today and tomorrow” in Gichana P. P. et. al: English – Kiswahili Learner’s Handbook, Nairobi: Petersberg International Publishers. Pp 11-16
- Mwangi, I.(2012) Othello, A translation of William Shakespeare’s play. Nairobi: Oxford University Press.
- Mwangi, I.(2012) An application of NGP and APT to vowel harmony in standard Kiswahili”. In: Reyono Journal of Interdisciplinary Studies. Vol.1 No. 1. pp 45-60
- Mwangi, I. (2012) An English – Kiswahili handbook for beginners. Nairobi: Petersburg International Publishers, A guide for foreigners and new learners of Kiswahili
- Oduor, R.M.J. (2012) A critical review of D.A. Masolo’s self and community in a changing world”. thought and practice: A Journal of the Philosophical Association of Kenya, Vol.4 No.1, pp1-24 <http://ajol.info/index.php/tp/index>
- Oriare N.,(2012) The Luo care for widows (Lako) and contemporary challenges. In:Thought and Practice: A Journal of the Philosophical Association of Kenya (PAK), New Series, Vol. 4 No 1, pp. 91-110; <http://ajol.info/index.php/tp/index>
- Ontita, E.(2012) ‘Adapting to Climate Change through a Paradigm Shift in Rural Development: The Case of Westgate Conservancy in Samburu County, Kenya’. International Journal of Social Science Tomorrow Vol. 1(6) August. (Published Online at [www.ijssst.com](http://www.ijssst.com))
- Ontita, E.(2012) ‘Local Church and Livelihood Construction: Interlocking Social Domains and Evolving Scenarios of Synergy for Mission in Nyamira, Kenya’. Transformation, Vol. 29(1): 30 – 43
- Owuor, S.O. & D. Foeken (2012) From self-help group to water company: the wandiege community water supply project (Kisumu, Kenya). In: J. Gewald, A. Levilend& I. Pesa(eds), Transforming Innovations in Africa: Explorative Studies on Appropriation in African Societies. Leiden: Brill, pp. 127-147
- Schroeder,H. & Kihara, P.(2012) Relevance-theoretical analysis of Mchongoano, University of Nairobi Journal of Languages and Linguistics, Vol 2

Siundu, G. (2012) Gender affirmation or racial loyalties? women and the domestication of history in Neera Kapur-Dromson's *From Jhelum to Tana*. In: James Ogude, Grace Musila & Dina Ligaga, eds., *Rethinking Eastern African Literary and Intellectual Landscapes*. Trenton: Africa World Press. Pp. 245 – 262

Siundu, G. (2012) "Review of Tina Steiner translated people, translated texts: language and migration in contemporary African literature", *Imbizo: International Journal of African Literary and Comparative Studies*, Volume 3 (1), pp 124 – 130.

Wanjala, A.N. (2012) Representing the gendered subaltern in postcolonial Kenyan fiction: Marjorie Oludhe Macgoye's coming to birth. In: *Reyono Journal of Interdisciplinary Studies*, Vol.1, No.2, 2012

Wanjala, A.N.(2012) Orality in Rebeka Njau's *The Sacred Seed*." *The Global South Special Issue: Indigenous Rights and Intellectual Property Rights and Property Rights in the Age of Globalisation.*" Vol. 5. No.2. Bloomington: Indiana University Press, 2012

Wanjala, A.N. (2012) *An unsettled hearth: women's voices in Kenyan fiction*. Berlin: Lambert Academic Publishing, 2012

Wasamba, P. & Sihanya, B. (2012) What do they get for their sweat: rethinking compensation for artists in poor cash-based economies. In: *Journal of African Cultural Studies*, Vol 24 NO. 2, pages 171-183

Wotsuna, A.C.(2012) The role of indigenous languages in Kenya: A case for using them as languages of instruction throughout primary schools. In: *University of Nairobi Journal of Language and Linguistics*, Vol. 2

## Papers Presented

Mwangi, I. Distance education in Kenya: experiences from M.A Linguistics & Kiswahili outreach programme", *Jilin University, Chungchun, China*. June 26, 2012

Mwangi, I Written Kikuyu as an endangered language form: evidence from an exploration of its phonology and orthography. Paper presented at the Conference on Imagining the Intangible Language, Literature and Visual Arts of the Indigenous, Vadodara, Gujarat – India, Jan. 5, 2012

Wairire, G. G. Prospects and challenges for social work in poverty reduction and the realization of millennium development goals in East Africa. A paper presented at the World Conference for Social work themed 'Social Work and Social Development 2012: Action and Impact' held in Stockholm- Sweden from 8-12 July, 2012

Wairire, G.G. The global agenda for social work and social development in the context of existing social work realities in east Africa. A paper presented at the International Symposium themed 'Social Work and Poverty Reduction in East Africa: The Role of Social Work' held on 26th June 2012 at Carinthia University of Applied Sciences, Austria

Dr. Wairire, G.G. Social work in post traumatic stress related scenarios in Kenya. A paper presented on 23rd June 2012 at Alpen Adria University - Klagenfurt , Austria

Akaranga, S. Come, see, pay and receive your miracles and healing: new Pentecostalism in Kenyan urban centres. A paper presented at the Conference on Roho Christianity: Pentecostalism in a Globalized African Public Space, Kenyatta University, 6th to 9th December, 2012

Akaranga, S. Mombasa Republican Council: a socio-political and economic challenge to the Kenyan government development plan. Paper presented at the National OSSREA Kenya Chapter Workshop, Hosted at Moi University, Kenya, 3rd to 4th December, 2012

Akaranga ,S. African traditional cultural conundrums which make women prone to hiv/ aids infections: a case of the Maasai of Kenya. Paper presented at the First Kenyatta University

Conference on Gender Based Violence, Hosted at Kenyatta University Nairobi, 3rd to 4th December, 2012-1st to 5th August, 2012

Akaranga, S. The dynamics of religiosity and spirituality in Kenyan public universities. Paper presented at the Religious Mobility in East Africa – The Catholic University of East Africa, Nairobi, 24th to 26th April 2012

Schroeder,H. Reference assignment in pronominal languages, relevance theoretical approach. Paper presented at the Intercultural, Cognitive and Social Pragmatics, 14 – 16 March 2012, Seville, Spain

Schroeder , H. New developments in linguistics pragmatics. Paper presented at the Conference on “The Pragmatics of clause chaining, the case of Toposa, an Eastern Nilotic language”, 26 – 28 May 2012, Lodz, Poland.

Gona, G. “Elusive peace in Kenya”. Paper presented at the public forum organised by Twaweza and Ahadi Kenya, Pride Inn Hotel, August 2012

Mwiandi, M. Emerging issues in the eastern region of Kenya. Paper presented at the People’s Conference: National Diversity Race and Ethnicity organised by NCIC at KICC, Nairobi - March 12-13 2012

Omondi ,E. The role of the teacher in developing critical thinking in early learners”. Paper presented at the seven- day training workshop on inside-outside learning Strategies from 16th –30th August, the Inside-Outside Education Institute, Salt Lake City, USA

Otieno Odeny,G. “Political struggles in Kenya: political parties’ coalitions or ethno-regional alliances, 2002 – 2011”. Paper presented at Marist International University College, A Constituent College of Catholic University of Eastern Africa, on 21st June 2012

Nyabul ,PO The Government of Kenya and the ICC relationship following the post election violence in 2008”. Paper presented at the International Conference on “The ICC, Judicial Governance and Trends of Justice”, Addis Ababa, Ethiopia, 3rd-4th December, 2012

V.G. Simiyu, What should Kenyans do to become a nation? Paper presented at the NCIC People’s Conference held at Kenyatta International Conference Centre, March 12 – 13, 2012

Ayiemba, E.H.O. Household formation and marriage in Kenya. Paper presented at the 4th Population Association of Kenya Conference. Nairobi, Kenya, 23-25 October, 2012

Marani, M. Emergency situations and humanitarian response in Kenya. Paper presented at the 4th Population Association of Kenya Conference. Nairobi, Kenya, 23-25 October, 2012

Marani, M. Methods and instruments for case study writing. Paper presented at the OSIEA/UISU/ KIA Crime Prevention Review Retreat. Nairobi, Kenya, 7-8 May 2012

Marani, M. Conflict and cooperation over natural resources – the role of customary governance traditional institutions. Paper presented at the Conflict and Cooperation over Natural Resources in Arid and Semi-Arid Lands in Kenya Workshop. Mwingi, Kenya, 2-4 August 2012

Ndogoni, L.K. Processing traumatic experiences from gender based abuse and violence among communities. Paper presented at Kenya Peace Initiative Conference. Nairobi, Kenya, 11-15 April 2012

Ndogoni, L.K. Managing the health, safety and well-being of aid workers: an integrated approach. Paper presented at the Inter-Agency Working Group/People in Aid-UK Conference. Nairobi, Kenya, 12-14 June 2012

Ndogoni, L.K. Implementing an evidence-based community mental health support intervention to improve function and economic development. Paper presented at the World Vision-Australia Capacity Building Conference. Nairobi, Kenya, 12-20 November 2012



***Prof. Michere Mugo addresses the University Community during the launch of her book "Writing and Speaking from the Heart of my Mind"***

luoko-Odingo, A.A. Climate change, gender and reproductive health for sustainable development. Paper presented at the Pan African Climate Justice Alliance (PACJA) Capacity Building Workshop. Arusha, Tanzania, 5-6 September 2012

Owuor, S.O. Trends and patterns of urbanization in Kenya. Paper presented at the First International Conference on Urbanization and Rural-Urban Migration in Sub-Saharan Africa. Nairobi, Kenya, 22-27, November 2012

Shah, P. The role of Kenya government in safeguarding Lake Naivasha. Paper presented at the 50th African Studies Conference. University of Edinburg, England, 5-8 June 2012

Wambua, B. Promoting services trade in developing countries: chasing a black cat in a dark room. Paper presented at the 6th TRAPCA Conference. Arusha, Tanzania, 22-23 November, 2012

Wambua, B. African trade under climate change and the green global economy. Paper presented at the 5th TRAPCA Conference. Arusha, Tanzania, 7-8 August 2012

Kabira, W.M. The historical journey of women's leadership in Kenya. Paper presented at Regional Dialogue on Women Political Leadership: Lessons from experiences of Rwanda, Tanzania, Uganda, Ghana and South Africa at Safari Park Hotel on August 14-16, 2012

Wanjala, A.N. Sheng: verbalising the paroles of Kenya's Transnation." A paper presented at the 1st Kenya Oral Literature Association Eastern African Cultural Forum. University of Nairobi, Kenya. 7th-10th November 2012

Wanjala, A.N. "The poetics of Genge: Jua Cali's Niimbie." A paper presented at the 26th annual MELUS conference and 6th conference of the United States Association for Commonwealth Literature and Language Studies (USACLALS), University of Santa Clara, California, United States of America, 20th April 2012

Wanjala, A.N. "Narrating the trauma of the abuse of human rights: rebeka Njau's The Sacred Seed." Paper presented at the annual African Literature Association conference, Southern Methodist University, Dallas, Texas, United States of America, 12th April 2012

Wanjala, A.N. "Poverty in Kenya: insights from a critique of selected novels." A paper presented at a round table discussion on global poverty, Centre for Human Rights and Peace, University of Nairobi, 13th-14th February 2012

Wanjala, A.N. "Historiography or imagination? The documentation of Luo traditional cultural memory in Kenyan fiction." A paper presented at the CHOTRO 4 conference in Vadodara-Tejgadh, India, 6th-8th January 2012

Mutie, P. "Making sense of ethnic identity in Kenya: towards cohesion?". Paper presented at the National Cohesion and Integration Commission (NCIC) Workshop at KCB Leadership Centre in Karen, Nairobi, July 2012.

Mutie P. "The quest for clean water in Kenya: social workers uneasy role and facilitating social development in multiethnic regions in Kenya". Paper presented at the Joint World Conference on Social Work and Social Development in Stockholm, Sweden, July 2012.

## Outreach and extension activities

Prof. Paul Mbatia, Department of Sociology and Prof. Wesley Shrum, a sociologist at Louisiana State University, produced a documentary movie dubbed Brother Time. The movie is a Kenyan tale of violence and humanity. Brother Time is a tale of two Rift Valley neighbors, whose friendship turn to conflict as ethnic passions threatened to engulf them. The film was narrated by Kenyans who witnessed 'the clashes.' It is a peace building documentary film made for the 2013 general election.

## 7.2 Institute of Anthropology, Gender and African Studies

The Institute of Anthropology, Gender and African Studies (IAGAS), formerly Institute of African Studies was established in 1970 with a mandate to carry out research into socio-cultural issues.

### Courses offered

In 2012, the Institute offered the following programmes:

- BA in Anthropology
- BA in Gender and Development
- PGD in Cultural Studies
- PGD in Gender and Development
- PGD in Management of Heritage and Museum Collections
- MA in Anthropology
- MA in Gender and Development
- Doctor of Philosophy in Anthropology

### Enrolment

In 2012, the Institute had 313 students enrolled in its programmes. At the Undergraduate level there were 197 students while the graduate level had 103 students. In addition, the Institute has 13 students enrolled in the doctoral programme.

### Graduands

In 2012 the Institute graduated the following numbers:

<b>Bachelor of Arts in Anthropology</b>	<b>33</b>
<b>Bachelor of Arts in Gender and Development Studies</b>	<b>19</b>
<b>Master of Arts in Anthropology</b>	<b>6</b>
<b>Master of Arts in Gender and Development Studies</b>	<b>30</b>
<b>PhD in Anthropology</b>	<b>2</b>

### International students

In 2012, the Institute had an international student complement of five students drawn from Italy, France and Canada.

### Research interests

REACT Project: The project funded by EU was concluded. Those who participated in the project are in the process of preparing peer-reviewed papers for publication. The project was a multi-country project involving different institutions, namely IAGAS; KEMRI; DBL-Institute for Health Research and Development; IDS-University of Dar es Salaam; National Institute for Medical Research, Tanzania; Primary Health Care Institute, Iringa, Tanzania; Dept. of Community Health, University of Zambia; Institute of Economic and Social Research, Zambia; Institute of Tropical Medicine – Department of Public Health, Belgium; Umeå International School of Public Health,

Sweden; and Center for International Health of UoB, Norway.

Gender empowerment and access to financial services in Machakos County Project: Prof. Simiyu Wandibba (PI, IAGAS), Dr. Steve Nangendo (Co-PI, IAGAS) and Dr. Benson Mulemi (Co-PI, Catholic University of Eastern Africa). The project is funded by the Institute for Money, Technology and Financial Inclusion (IMTFI), University of California at Irvine.

Study on cash transfers for OVCs in Kenya: Onyango-Ouma, W. Beneficiary and community perspectives of the cash transfer for orphans and vulnerable children Programme in Kenya. Overseas Development Institute (ODI) and DFID. June-Dec. 2012.

Study on new vaccines: Onyango-Ouma, W. New vaccines: from licensing to adoption – determining the factors of pneumococcal vaccine adoption and the impact on health systems of the new vaccine adoption, LSHTM and Global Vaccine Initiative (GAVI). May 2011 – May 2012.

An anthropological study of the impact of cervical cancer and genital warts in Vietnam and Kenya: Siso, J led this study as the National Anthropologist. The study was conducted in Kenya and Vietnam. July 2011 to November, 2012.

## International Links and collaborations

In 2012, the Institute had active MoUs with DBL-Institute for Health Research and Development – Denmark; Kyoto University, Japan and Bryn Mawr College, USA, University of Bergen, Norway and Steno Health Promotion Center of the Steno Diabetes Center, Denmark. In addition, the Institute received research scholars and students. These affiliations provide avenues for exchange of ideas with staff and students of the Institute.

## Publications

Nyamongo, I. K. and Michuki, G. (2012) Rapid situation assessment of the status of drug and substance abuse in Kenya. National Authority for the Campaign Against Alcohol and Drug Abuse. NACADA, Nairobi. (IKN – PI, GM – Co-PI). Also available from <http://www.nacada.go.ke>.

Khisa, A. M. and Nyamongo, I. K. (2012) Still living with fistula: Stigma and the post-corrective surgery experience of obstetric fistula survivors in Kenya. *Reproductive Health Matters*, Vol. 20(40): 59-66.

Olang’o, C. O., Nyambedha, E. O. and Nyamongo, I. K. (2012) Children as caregivers of parents and relatives living with HIV/AIDS in Nyang’oma division in Western Kenya. *African Journal of AIDS Research*, Vol. 11(2): 135–142.

## Papers presented

Wandibba, S. Traditional and contemporary forms of community land tenure systems. Paper presented at the Task Force on Community Land and Evictions and Resettlement Bills Planning Retreat, 1st-3rd November, 2012, Elementeita Country Lodge, Gilgil.

Wandibba, S. Heritage sites in Kenya. Paper presented at the Task Force on Community Land and Evictions and Resettlement Bills Planning Retreat, 1st-3rd November, 2012, Elementeita Country Lodge, Gilgil.

Nyamongo, I. K. Female genital cutting: some thoughts from KDHS / qualitative surveys. Social norms measurement conference, University of California, San Diego, Center on Global Justice/

UNICEF, San Diego, CA USA. Nov 9 – 10, 2012.

Nyamongo, I. K Neglected tropical diseases: how visible are social scientists (sciences) in NTD research? Keynote Paper presented at the 6th Annual Symposium of the Neglected Tropical Diseases Branch, Center for Global Health Research, Kenya Medical Research Institute (KEMRI), December, 10th & 11th 2012.

Broomhall, Lorie L., Nyamongo, Isaac & Ballard, Elisa . Gender-based violence, survival sex and HIV risk among female sex workers in south Sudan. XIX International AIDS Conference, Washington, USA, July 22-27, 2012.

Siso, J. HIV specific health clinics: utilization of patient support centre services at Keumbu Sub-District Hospital in Kisii Central district, Kenya. PAAA Conference, Nairobi Safari Club (13th–14th August 2012).

Bukachi, S. Participatory situational analysis of the Kwale landscape report. Paper presented at the World Wide Fund for Nature (WWF) Kwale Project Strategic Planning Workshop, Diani, 13th-15th March, 2012.

Bukachi, S. Anthropology and neglected tropical diseases. Paper presented at Pan African Association of Anthropologists (PAAA) conference, Nairobi Safari Club (13th–14th August 2012).

## 7.3 Institute of Diplomacy and International Studies

The Institute of Diplomacy and International Studies ((IDIS) is a regional training institution based at the University of Nairobi. Its core service areas include undergraduate and postgraduate training, research, publication and conferences, a modern language laboratory, a library and documentation service and hostel facilities for students and visiting scholars and researchers. IDIS caters for the needs of African countries and international organizations, and maintains close links with similar institutions all over the world.

The Institute maintains close links with the resident diplomatic community. The latter participate in the Institute's programs either as guest lecturers, seminar resource persons/participants or advisers in practical aspects of diplomacy such as diplomatic negotiations. The location of the Institute allows it to benefit from the large diplomatic presence and international organizations and media personnel in Nairobi.

### Programmes Offered

In 2012, the Institute offered the following programmes:

- Diploma in International Studies
- Diploma in Strategic Studies
- Bachelor of Arts in International Studies
- Postgraduate Diploma in International Relations
- Postgraduate Diploma in Strategic Studies
- Master of Arts in Diplomacy
- Master of Arts in International Conflict Management
- Master of Arts in International Studies
- PhD in International Studies



## Enrolment

In 2012, the Institute enrolled the following numbers:

<b>Diploma in International Studies</b>	<b>83</b>
<b>Bachelor of Arts in International Studies</b>	<b>399</b>
<b>Postgraduate Diploma in International Relations</b>	<b>14</b>
<b>Master of Arts in Diplomacy</b>	<b>78</b>
<b>Master of Arts in International Conflict Management</b>	<b>91</b>
<b>Master of Arts in International Studies</b>	<b>261</b>
<b>PhD in International Studies</b>	<b>26</b>

## Graduands

In 2012, the Institute graduated the following numbers:

<b>Diploma in International Studies</b>	<b>43</b>
<b>Diploma in Strategic Studies</b>	<b>25</b>
<b>Postgraduate Diploma in International Relations</b>	<b>314</b>
<b>Postgraduate Diploma in Strategic Studies</b>	<b>8</b>
<b>Master of Arts in Diplomacy</b>	<b>23</b>
<b>Master of Arts in International Conflict Management</b>	<b>26</b>
<b>Master of Arts in International Studies</b>	<b>63</b>

## Staff

In 2012, the Institute had the following staff complement

<b>Professor</b>	<b>1</b>
<b>Associate professor</b>	<b>4</b>
<b>Senior lecturer</b>	<b>4</b>
<b>Lecturer</b>	<b>16</b>
<b>Assistant lecturer</b>	<b>1</b>

## 7.4 Institute for Development Studies

The Institute for Development Studies (IDS) is a premier development research institute in the Eastern and Southern Africa region. Established in 1965, the Institute has been carrying out research on development in the region and has increasingly influenced policy thinking and policy making in the region and Africa in general.

### Courses offered

In 2012, the Institute offered a Master of Arts (Development) course as well as a Doctor of Philosophy in Development Studies programme .

## Enrollment

In 2012, the Institute enrolled twenty six (26) students for studies leading to the award of the degree of Master of Arts in Development Studies. Additionally, the PhD programme had six candidates.

## Graduands

In 2012, the Institute graduated 12 M.A in Development Studies candidates

## Staff

In 2012, the Institute had a staff complement as follows.

<b>Research Professors</b>	<b>2</b>
<b>Associate Research Professors</b>	<b>5</b>
<b>Senior Research Fellows</b>	<b>54</b>
<b>Research Fellows</b>	<b>3</b>
<b>Junior Research Fellow</b>	<b>1</b>

## International links and collaboration

In 2012, the the Institute was involved in the following collaborative studies

Socio-Cultural factors Gender, Culture and Women in the Lake Victoria Fish Trade: A value chain analysis, a research project funded by VicRes. A three year research project involving researchers in Kenya, Tanzania and Uganda.

Conflict and Human Security Research Project Collaboration – University of Nairobi (IDS) and (Faculty of Arts); United Nations Centre for Regional Development (UNCRD) and University of Denver (Graduate School of Social Work).

African Regional and Local Planning for Sustainable Development – Annual MA Seminar Collaboration with Nihon Fukushi University Development School – Nagoya, Japan.

Afrobarometer Round 5 Survey: Research Project that measures social, political and economic atmosphere in Africa.

## Publications

McCormick, D. Mitullah W, Orero R and Ommeh M (2012) Paratransit operations in Nairobi: development of their routes and termini, 30th Southern African Transport Conference: Africa on the Move, Pretoria.

Onjala J. "Risk Perception, choice of drinking water and water treatment: evidence from Kenyan towns" under peer review 2012: Journal of African Economies.

Njeru G. "Creating sustainable livelihoods through innovative resource use in the semi-arid areas of Kenya: experiences from Mbeere district" in Regional Development Dialogue Vol. 33, No. 2, Autumn 2012, pp.35-51.

Ngethe, N., Michuki, G. and Wanjiru, R., ( 2012 ) Police reforms in Kenya: perceptions and expectations from key stakeholders", Discussion Paper No. 116/2012, IPAR.

McCormick D, in ACTIF magazine, Cotton Africa (Issue no. 3, January-March 2012) entitled 'Regional clothing project: ACFRN; A study on Chinese ascendancy in the global clothing industry, its impact on African countries.'

Mitullah W and Makajuma G, 2012: Analysis of non-motorised travel conditions on Jogoo Road corridor in Nairobi, Kenya, ACET Project 7: Non-motorised travel and infrastructure in Nairobi, Working paper 7-02, University of Nairobi and Jomo Kenyatta University of Agriculture and Technology

Mitullah, Winnie, With Margret Nyambura and Timothy Waema 'Factors influencing usage of the new technologies in low-income households in Kenya: The Case of Nairobi' in Info Issue 14, 4, 2012.

## Papers presented

Onjala J. Celine Nauges, S, W. Ndiritu. Risk perception, choice of drinking water and water treatment: evidence from Kenyan towns. Paper presented during the 19th Annual Conference of the European Association of Environmental and Resource Economists, Prague, Czech Republic. 30th June 2012.

Njeru G. 14-16 May 2012, Resource Person at the Rule of Law Training Workshop for the Military in the Republic of South Sudan held at the International Peace Support Training Centre (IPSTC) of the Kenya Defence Staff College, Nairobi. Presented two papers namely: State structures with reference to south Sudan and Governing cultural diversity for rapid development: the case of south Sudan, organized by IPSTC in conjunction with UNDP.

Njeru G. 27 June - 02 July 2012, Attended the International Conference on Governance and Democracy: An African Perspective in Kigali, Rwanda, held at the Parliament Buildings, organized by the International Conference on the Great Lakes Region (ICGLR); UN-Rwanda, UNDP, Commonwealth Secretariat and Rwanda Governance Board (RGB). Presented a paper entitled: Election management in Africa: lessons from election financing in Kenya.

Kinyanjui, M.: Business exits and takeovers in Nairobi's Central Business District: implications for inclusion of informal businesses in urban planning. Paper presented at workshop on Changing Socio-Spatial Configurations of Inclusion and Exclusion: Planning and Counter Planning in an African City. 7-9 March, 2012 Uppsala, Sweden

Mitullah, W. 'Socio-economic aspects of malaria, schistosomiasis and rift valley fever. Presented at Healthy Futures Workshop, Arusha, 8 – 9th May, 2012

Mitullah, W.: 'Opportunities presented by the devolution provisions'. Presented to People Living with HIV Leadership for GIPA in Governance workshop, Enashipai Hotel, Naivasha. 24th April, 2012.

Mitullah, W. 'Implementing devolved government' presented in a panel on New Constitution, Good Governance and the Fight Against Corruption' organized by the German supported Programme Go-Africa. Nairobi, Fairview Hotel, 2nd March, 2012.

## 7.4 School of Law

The School of Law, formerly Faculty of Law was established in 1970 and is one of the original faculties of the University of Nairobi. The mandate of the School is to run a national training programme for the legal profession. The School of Law has three Campuses: Parklands, Nairobi, Mombasa and Kisumu. The School also has three departments: commercial, private and public law.

### Courses offered

In 2012, the School offered the following programmes: Bachelor Of Laws (LLB), Master of Laws (LLM) in various thematic areas, and, PhD in various thematic areas

### Enrolment

In 2012, the School enrolled the following numbers

<b>Bachelor of Laws</b>	<b>2149</b>
<b>Master of Laws</b>	<b>104</b>
<b>PhD</b>	<b>6</b>

### International students

In 2012, the School had students from Iran, Malawi, Sudan and Uganda at various levels.

### Research interests

In 2012, the School had research interests that included: governance and democracy; public finance and financial services ; international trade and investments ; gender; public international law; environmental and natural resources intellectual property , science and technology; and, corporate governance.

### International links and collaboration

In 2012, the School maintained links with : the International Development Research Centre (IDRC) Canada, Ford Foundation, Norwegian Agency for International Development, the Norwegian Research Council, and the South and Eastern Africa Research Centre on Women's Law, University of Zimbabwe.

### Publications

Kaviti, LK. 2012. Tensions between children's rights and culture: the case of child participation in Kenya:. Human Rights, African Values and Traditions: an Interdisciplinary Approach. Haki Book Series No. 1-sponsored by the Danish Institute of Human Rights (DIHR). , Nairobi: Focus Publishers

Wasamba, P & B.Sihanya (2012)"What do Kenyan artists get for their skill? Reforming compensation under copyright," 24:2 Journal of African Cultural Studies 171-183 (Routledge; SOAS, London).

Sihanya, B. (2012) "Digital copyright in Kenya," Vol 8 2012 No.1 Law Society of Kenya Journal pp. 119-148

Sihanya, B. (2012) Constitutional implementation in Kenya, 2010-2015: challenges and

prospects," A study under the auspices of the Friedrich Ebert Stiftung (FES), Occasional Paper No. 5, Nairobi, January 2013, ISBN: 9966-957-20-0.

## Graduands

In 2012, the School graduated the following numbers:

<b>Bachelor of Laws</b>	<b>330</b>
<b>Master of Laws</b>	<b>47</b>
<b>PhD</b>	<b>2</b>

## 7.5 Population Studies and Research Institute

The Population Studies and Research Institute (PSRI) was established in 1976 as a post graduate centre for training population scientists undertaking research on population and related issues, and to provide backstopping in the fields of population and reproductive health.

### Courses offered

In 2012, the Institute offered the following courses: MA in Population Studies, Msc in Population Studies, PhD in Population Studies, and Monitoring and Evaluation of Population and Health Programs

### Student enrolment

In 2012, the Institute enrolled the following numbers:

<b>MA</b>	<b>31</b>
<b>MSC</b>	<b>9</b>
<b>PhD</b>	<b>7</b>
<b>M&amp;E</b>	<b>59</b>

### Graduands

In 2012, the Institute graduated 21 master's degree students and 2 PhDs.

### Research activities

Ikamari L., Mutuku I, participated in the training and data collection and processing of the International Tobacco Control Policy Evaluation Project' (ITC Project, University of Waterloo, Canada).

A group of staff faculty analyzed data and wrote reports on various chapters of the Kenya Population Situation Report, a project of the UNFPA/GOK

Ikamari, L, analyzed data and prepared three reports on unintended childbearing and reproductive health under the auspices of Strengthening Evidence for Programming of Unintended Pregnancy (STEP) Project, of the African Population and Health Research Centre and Population Council.

### International links and Collaborations

In 2012, the Institute established research collaboration with the University of Waterloo in Canada through the International Tobacco Control Evaluation Project.

## Publications

Wafula,S.W, L.Ikamari and B. K'Oyugi, 2012. 'In search for an explanation to the upsurge in infant mortality in Kenya during the 188-2003 period', *PMC Public Health* 2012: Volume 12:441: DOI: 10.1186/1471-2455-12-441.

Kimani,B, J.Nyagero and L.Ikamari, 2012. Knowledge, attitudes and practices on jigger infestation among household members aged 18-60 years' a case study of a rural location of Kenya. *Pan African Medical Journal*, 2012: 13 (suppl):7-12.

Ikamari,L. 2012. IUCD re-introduction in Kenya: A Case of Best Practice. In *PP Documentation of Best Practices in Family planning and Reproductive Health: Partners in Population and Development Secretariat: Dhaka Bangladesh*.

Ross, J.A and A.T. Agwanda 2012. The rise of injectable contraception in sub-saharan Africa. *African Journal of Reproductive health* 16 (4): 63-73

Oucho, J.O. 2012 "International migration: Trends and institutional frameworks from the African Perspective, in J. Martinez and L. Reboiras (eds.), *Development, Institutional and Capacity Aspects of International between Africa, Europe and Latin America and the Caribbean*. Santiago, Chile: United National Economic Commission for Latin America and the Caribbean, 2012, pp. 147-188.

Oucho, J.O. 2012 "African Migration in Euro-African Relations: A Blessing or Misfortune?" [*"Migraciones Africanas Suerte Y Maldicion Para Africa Y Euopa"*]. In Mbuyi K. Badi (ed.) *Africa en movimiento*. Madrid: CASA Africa, pp. 281-302

Obonyo J. B., et. al. (2012): "Kenya 2009 Population and Housing Census Analytical Report on Projections of Special Population Groups, 2010-2030, Vol. XI". Kenya National Bureau of Statistics, Ministry of Planning, National Development and Vision 2030, Nairobi.

## Paper Presentations

Agwanda, A. Rural-Urban migration in Nyanza, Western and Nairobi provinces Presentation made at Stakeholders' seminar on 'migrating out of poverty in Kenya' Kisumu hotel, 26-27 April 2012

Odipo, G. The paradox of international migration trends and patterns in Africa: policy implications for cross-border trade and integration, a paper presented at the European Population Conference, Stockholm University, Stockholm, Sweden, 13th-16th June, 2012 (posted in the EPC website)

Odipo, G. Migration, agriculture and food security in Kenya: policy and institutional changes for promoting investment of remittances in agricultural sector, a paper presented at the FAO Conference, Dakar, Bangladesh in March 2012.

Odipo, G. Diaspora, remittances and development in IGAD states, a paper presented at the 2nd IGAD Regional Consultative Process On Migration (RCP); Migration and Development, United Nations Conference Centre, Addis Ababa, March 2012

Odipo, G. African brain-related concepts on international migration, a paper presented at the 2nd IGAD Regional Consultative Process on Migration (RCP); Migration and Development, United Nations Conference Centre, Addis Ababa, March 2012.

Odipo, G. Policy and institutional changes for promoting investment of remittances in Kenya's agricultural sector, a Paper Prepared for FAO, through African Migration and Development Policy Centre (AMADPOC), January 2012. Nairobi

Odipo, G. Emigration and development linkages in Kenya: trends, patterns and utilisation of remittances. 4th Population Conference of the Population Association of Kenya, 23rd – 25th October, 2012. Nairobi Safari Club (Lillian Towers), Nairobi; “Population Dynamics: Implications for the Achievement of Kenya Vision 2030 and Millennium Development Goals (MDGs)”

Odipo,G. Emigration levels, trends and patterns in Kenya: standard age migration schedules incoherence 4th Population Conference of the Population Association of Kenya, 23rd – 25th October, 2012. Nairobi Safari Club (Lillian Towers), Nairobi; “Population Dynamics: Implications for the Achievement of Kenya Vision 2030 and Millennium Development Goals (MDGs)”

Odipo, G. Inter-linkages of forced migration, human rights and poverty: application of the socio-legal models; European Population Conference, Stockholm University, Stockholm, Sweden, 13th-16th June, 2012, EPC Website.

Odipo G. Forced migration, human rights and poverty among refugees in Kenya: application of social development and legal institutions models; International Methodological Seminar: Demography, Development and Democracy in Africa; University of the Witwatersrand, Johannesburg, 14th-16th November. 2012

Oucho, J. “African brain-related concepts on international migration”. Paper presented at a meeting of the IGAD 2nd Regional Consultative Process on Migration”, Addis Ababa, Ethiopia, 7-8 February 2012.

Oucho, J. “Migration, agriculture and food security in Kenya status, policy and institutional changes for promoting investment of remittances in agricultural sector”. A presentation at the Technical Consultation on Migration and Remittances and their Impact on Sustainable Food Security, Agriculture and Rural Development”, Bogra, Bangladesh, 8-9 February 2012.

Oucho, J. Prospects for free movement in the East African community. Paper for the ‘Regional Governance of Migration and Social Policy Comparing European and African Regional Integration Policies and Practices’ held at the University of Pretoria, South Africa, 19-20 April 2012.

Oucho, J. African migration in Euro-African relations: a blessing or misfortune? Opening Lecture, Conference on ‘Extra-African migrations focusing on sub-Saharan African Migration in Europe, Carlos de Amberes Foundation, Madrid, Spain, 9-11 May 2012.

Oucho, J. The place of population dynamics in Kenya’s vision 2030 agenda. Keynote Address delivered at the Fourth Conference of Population Association of Kenya (PAK), Nairobi, 23-25 October 2012.

Oucho, J. International migration and development in Kenya. Paper presented at the Fourth Conference of Population Association of Kenya (PAK), Nairobi, 23-25 October 2012.

Agwanda, A. Population Situation Analysis (PSA) challenges and opportunities. Presentation made at the PSA Orientation workshop on 8 - 12 May 2012, Southern Sun Hotel, Nairobi, Kenya

Agwanda A. Population Situation Analysis. Discussion Guide for Authors 19 June 2012. University of Nairobi

Agwanda ,A. Population Situation Analysis (PSA) lessons learnt from Kenya. Presentation made at International workshop on capacity strengthening in integration of Population and Environmental Issues in National and Sector Development frameworks Sandon Hotel ,Johannesburg South Africa, July 2012

Agwanda, A. allocating resources to devolved governments in Kenya: an illustration with principal components approach. Presentation made at Population Association of Kenya 4th Population Conference Held at Nairobi Safari Club, Nairobi, Kenya October 23rd -25th, 2012

Agwanda A. Inequities and exercise of rights: highlights from population situation analysis. Presentation made at Population Association of Kenya 4th Population Conference Held at Nairobi Safari Club, Nairobi, Kenya October 23rd -25th, 2012

Agwanda, A., A.Khasakhala and G.Odwe . Barriers to utilization of facility delivery in Kenya. Presentation made at Population Association of Kenya 4th Population Conference Held at Nairobi Safari Club, Nairobi, Kenya October 23rd -25th, 2012

Khasakhala, A. A.Agwanda and G. Omedi. A comparative study of infant mortality: the case of Kenya and Tanzania. Presentation made at Population Association of Kenya 4th Population Conference Held at Nairobi Safari Club, Nairobi, Kenya October 23rd -25th, 2012

Ikamari, L. 'Analysis of census data taking into consideration gender dimensions'. A technical paper presented at the Kenya National Seminar on Census Data Analysis, 19-22, March, 2012, Panafric. Hotel, Nairobi, Kenya.

Ikamari, L. 'African ontology and its implications for public health research', Paper presented at the 'Second Cohort of Carta PhD Fellows Training Workshop, 5-30 March, 2012, The Oak Place, Nairobi, Kenya.

## 7.6 School of Business

The School of Business, formerly Faculty of Commerce, was established in 1956/57 academic year in the then Royal Technical College to offer special academic and professional examinations in the accountancy and secretarial practice. Following its inception in 1964, the first bachelor of commerce class was admitted with 35 students in Main Campus.

In 2012, the School offered seven programmes namely: Bachelor of Commerce (B.Com), Master of Business Administration (MBA), Master of Science in Finance (MSc. Finance), the newly introduced Master of Science programmes in Human Resource Management, Marketing, Entrepreneurship & Innovations Management, and the Doctor of Philosophy (PhD) in Business Administration.

### Enrolment

In 2012, enrolment in the school stood at:

### Graduands

<b>Undergraduate</b>	<b>9500</b>
<b>Postgraduate</b>	<b>3574</b>

### International Student Component

In 2012, the School had 50 international students.

### International Links and Collaborations

In 2012, the School maintained its links with: the Kenya Revenue Authority (KRA) through the Department of Finance & Accounting; GfK-Germany aimed at establishing a Master of Science programme in Marketing Research; SMC University for on line MSc. and PhD programmes; Barclays Bank where the bank has sponsored an Endowment Chair through the Department of Finance and Accounting'

The School remained an active member of the Association of African Business Schools (AABS) which acts as a benchmarking body for business schools across the continent.



<b>Bachelor of Laws</b>	<b>330</b>
<b>Master of Laws</b>	<b>47</b>
<b>PhD</b>	<b>2</b>

The School hosted the EFMD (European Foundation for Management and Development) Conference on 11th and 12th October 2012 in collaboration with Strathmore University in its efforts to foster interaction and exchange of ideas among scholars.

## Papers

Yabs J. Entrepreneurial initiatives, business environmental factors, and the success of Kenya's OFDIs in EAC. A paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Busienei J., K'Obonyo P and Ogutu M. The effect of human resource strategic orientation on performance of large private manufacturing firms in Kenya. A paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Busienei J., K'Obonyo P. and Ogutu M. The effect of business strategy on the relationship between human resource strategic orientation and performance of large private manufacturing firms in Kenya A paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Busienei J., K'Obonyo P. and Ogutu M. The effect of organizational structure on the relationship between human resource strategic orientation and performance of large private manufacturing firms in Kenya A paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Busienei J., K'Obonyo P. and Ogutu M. The effect of contingency perspective of human resource strategic orientation on performance of large private manufacturing firms in Kenya A paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Lishenga L. and Acquillynembaka The link between compliance with corporate governance disclosure code, and firm performance for Kenyan firms. A paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Thuo J.K., Kibera F.N., K'Obonyo P. and Wainaina G. Customer relationship management practices and the marketing productivity of commercial banks In Kenya A paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Asiabugwa M.A., Munyoki J.M. E-Commerce strategy and performance of commercial banks in Kenya a paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Kilika J.M., K'obonyo P, Ogutu M. and Munyoki J.M. Towards understanding the design of human resource development infrastructures for knowledge intensive organizations: empirical evidence from universities in Kenya A paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Ondiek G.O., Kisombe S.M. Lean manufacturing tools and techniques in industrial operations: a survey of the sugar sector in Kenya A paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Yabs J. Entrepreneurial Initiatives, business environmental factors, and the success of Kenya's outward foreign direct investments in east Africa. A paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Machuki V.N. and Oketch N.A. Corporate governance structures and performance of HIV/AIDS NGO's in Nairobi, Kenya A paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Gichaba S.M., Magutu P.O., Onsongo E.N. and Nyenze C. Corporate governance as an instrument for ethical behaviour in organizational success a paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

Monari F., Andollo A.A. and K'obonyo P. The influence of time management tendencies on the relationship between employee empowerment and organizational performance: a study of the University Of Nairobi employees A paper presented at the African International Business and Management Conference at KICC, Nairobi, July 12-13

## Publications

Aduda J., Masila J.M. and Onsongo E.N. . The determinants of stock market development: the case of the Nairobi Stock Exchange, International Journal of Humanities and Social Science, Vol.2 No.9, Centre for Promoting Ideas, ISSN 2220-8488(Print), 2221-0989 (On-line)

Aduda J., Magutu P. and Githinji M.W. (2012). The relationship between credit scoring practices by commercial banks and access to credit by small and medium enterprises in Kenya, International Journal of Humanities and Social Science, Vol.2 No.9, Centre for Promoting Ideas, ISSN 2220-8488(Print), 2221-0989 (On-line)

Aduda J., Odera E.O. and Onwonga M. (2012). The behavior and financial performance of individual investors in the trading of shares of companies listed at the Nairobi Stock Exchange, Kenya, Journal of Finance and Investment Analysis, Vol. 1, No. 3, 33-60, Science Press Ltd, ISSN:2241-0988 (Print Version), 2241-0996 (Online)

Aduda J. and Kingoo N. (2012). The relationship between electronic banking and financial performance among commercial banks in Kenya, Journal of Finance and Investment Analysis, Vol. 1 No. 3, 99-118 ,Science Press Ltd, ISSN:2241-0988 (Print Version), 2241-0996 (Online)

Aduda J. and Kalunda E. (2012). Financial inclusion and financial sector stability with reference to Kenya: A Review of Literature, Journal of Applied Finance and Banking, Vol. 2, No.6, 95-120, Skeen Press Ltd, ISSN: 1792-6580 (Print Version), 1792-6599 (Online)

Aduda J., Kimoro J.N. and Mosoti J.M. (2012). Foreign exchange reserves risks and management strategies adopted by the Central Bank of Kenya, African Journal of Business and Management, Vol.1 No. 1, pp 27-22, AJBUMA publishing, ISBN 978-9966-1570-1-0

Aduda J., Wandabwa G. and Onsongo E.N. (2012). Corporate governance practices, and the relationship between corporate governance and financial performance among broadcasting stations in Kenya, African Journal of Business and Management, Vol.1 No. 2, pp 65-84, AJBUMA publishing, ISBN 978-9966-1570-2-7

Aosa E., Machuki V. and Letting N.K. (2012). Firm-Level institutions and performance of public quoted companies in Kenya". International Journal of Humanities and Social Science, 2(21), pp. 298-312, November

Aosa E., Awino Z. and Bagire V. (2012). "The interaction of personal factors, structure and performance in NGOs" DBA Africa Management Review, 2(3), pp. 25-41, November

Aosa E., Kinuu D. and Maalu J. (2012). "Factors influencing change management process at Tamoil Kenya Limited". Business Administration and Management, 2(8), pp 655-662, August

- Aosa E., Letting N. and Machuki V. (2012). "Board diversity and performance of companies listed in Nairobi Stock Exchange". *International Journal of Humanities and Social Science*, 2(11), pp. 172-182, June
- Aosa E., Bagire V. and Awino Z. B. (2012). "The strategy-resource configurations and performance implications in Non-governmental Organizations" *Crown Research in Education*, 2(3)
- Awino Z.B. (2012). An empirical study of top management team diversity, and performance in the service industry, *ASM's International E-Journal of Ongoing Research in Management and IT* e-ISSN-2320-0065 INCON 13-Gen-031.
- Awino Z.B. (2012). Top management team diversity, quality decisions and organizational performance in the service industry, *aSM's International E-Journal of Ongoing Research in Management and IT* e-ISSN-2320-0065 INCON 13-Gen-032.
- Awino Z. B. , Jemimah M. M., Linet K. O. (2012). Strategic planning, planning outcomes and organizational performance – an empirical study of commercial banks in Kenya *Research Journal in Organizational Psychology and Educational Studies*, Volume 1 No. 5 pp. 266-271, 2012. <http://rjopes.emergingresource.org/> A reputable Emerging Academy Resources Journal Published in Seattle USA ISSN: 2276-8475
- Awino Z. B, Bagire V. and Aosa E. (2012). The interaction of personal factors, structure and performance in NGOs *DBA Africa Management Review*, Volume 2 No. 3 pp. 25-41, 2012. <http://journals.uonbi.ac.ke/damr/> A peer reviewed Publication of the School of Business, University of Nairobi ISSN 2224-2023.
- Awino Z. B., Maina M., Ogutu M. and Oeba L. K. (2012). Total quality and competitive advantage of firms in the horticultural industry in Kenya *Prime Journal of Business Administration and Management (BAM)*, Volume 2 (4), pp. 521-532, March 14th 2012. [www.primejournal.org/bam](http://www.primejournal.org/bam). An International Journal ISSN: 2251-1261.
- Awino Z. B., Bagire V. and Aosa E. (2012). The strategy-resource configurations and performance implications in Non-Governmental Organizations *Crown Research In Education*, Volume 2 Issue 3, pp. 105-112, April 2012. <http://crownjournals.org> An International Journal ISSN 2276-7436
- Awino Z. B. and Nkirote C. (2012). Bottlenecks in the execution of Kenya Vision 2030 Strategy: an empirical study *Prime Journal of Business Administration and Management (BAM)*, Volume 2 (3), pp. 505-512, March 14th 2012. [www.primejournal.org/bam](http://www.primejournal.org/bam). An International Journal ISSN: 2251-1261
- Awino Z. B. and Kariuki P. M. (2012). Firm strategy, business environment and the relationship between firm level factors and performance. *DBA Africa Management Review*, Volume 2 No. 1 pp. 77-98, 2012. <http://journals.uonbi.ac.ke/damr/>. A Publication of the School of Business, University of Nairobi ISSN 2224-2023.
- Gathungu J. and Mwangi J. (2012). Dynamic capabilities, talent development and firm performance. *DBA Africa Management Review*, Volume 2 No. 3. <http://journals.uonbi.ac.ke/damr/>. A Publication of the School of Business, University of Nairobi ISSN 2224-2023
- Kinoti M., and Kerubo C. (2012). Factors contributing towards adoption of green marketing practices in the mobile phone service providers in Kenya. *DBA Africa Management Review*, Volume 2 No. 1 <http://journals.uonbi.ac.ke/damr/>. A Publication of the School of Business, University of Nairobi ISSN 2224-2023
- K'Obonyo P., Munyoki J. and Kilika J. (2012). Towards understanding the design of human resource development infrastructures for knowledge intensive organizations: empirical evidence from universities in Kenya. *DBA Africa Management Review*, Volume 2 No. 2 <http://journals.uonbi.ac.ke/damr/>. A Publication of the School of Business, University of Nairobi ISSN 2224-2023

K'Obonyo P., Omari S. and Kidombo H. (2012). A critical evaluation of the applicability of unitarism perspective in contemporary employment relations. *DBA Africa Management Review*, Volume 2 No. 3 <http://journals.uonbi.ac.ke/damr/>. A Publication of the School of Business, University of Nairobi ISSN 2224-2023

Maalu J., Nzube S., and Muindi F. ( 2012). A survey of personal goals and perception of entrepreneurial ability amongst students at the School of Business, University of Nairobi; *African Journal of Business & Management (AJBUMA)* Vol. 1 No. 1 (2012) AIBUMA Publishing; ISSN 987-9966-1570-1-0

Maalu J. (2012). A survey of personal goals and perceptions of entrepreneurial ability among students of the School of Business, University of Nairobi. *Africa Journal of Business and Management*.Vol.2 (3).

Maalu J. and McCormick D. (2012). Innovation hubs and small enterprises in Africa: setting the policy agenda. *Africa Journal of Business and Management*.Vol.1 (2).

Maalu J. and Kabui E. (2012). Perception of entrepreneurship as a career by students from selected public secondary schools in Nairobi. *DBA Africa Management Review*, Volume 2 No. 1 <http://journals.uonbi.ac.ke/damr/>. A Publication of the School of Business, University of Nairobi ISSN 2224-2023

Muindi F. and Maalu J. ( 2012). A survey of personal goals and perception of entrepreneurial ability amongst students at the School of Business, University of Nairobi; *African Journal of Business & Management (AJBUMA)* Vol. 1 No. 1 (2012) AIBUMA Publishing; ISSN 987-9966-1570-1-0

Munyoki J.M., Kabagambe L. B. and Ogutu M. (2012). The effect of export marketing strategy on the relationship between firm competencies and export performance of small and medium manufacturing exporters in Uganda . *DBA Africa Management Review* Vol 2 (1), pp 10-23.

Munyoki J.M. and Kirigo W. R. (2012). Factors that influence consumer preference of television stations by public primary school teachers in Langata division, Nairobi *DBA Africa Management Review* Vol 1 (1), pp 79 -92.

Munyoki J.M., Kabagambe L. B., and Ogutu, M. (2012). Firm competencies and export performance: A study of small and medium manufacturing exporters in Uganda. *European Scientific Journal* Vol 8 (12) pp 29-48.

Ogutu M., Nyatichi V. (2012). Competitive strategies adopted by multinational banks in Kenya *DBA Africa Management Review*, Volume 2 No. 1 <http://journals.uonbi.ac.ke/damr/>. A Publication of the School of Business, University of Nairobi ISSN 2224-2023.

Ogutu M. and Mbula C. (2012): Strategies adopted by multinational corporations to cope with competition in Kenya. *DBA Africa Management Review*, Volume 2 No. 3 <http://journals.uonbi.ac.ke/damr/>. A Publication of the School of Business, University of Nairobi ISSN 2224-2023.

Owino J. (2012): Strategic planning, planning outcomes and organizational performance – an empirical study of commercial banks in Kenya. *DBA Africa Management Review*, Volume 2 No. 3 <http://journals.uonbi.ac.ke/damr/>. A Publication of the School of Business, University of Nairobi ISSN 2224-2023

Nzube S.N.M. and Bakari T.H. (2012). "The relationship between empowerment and performance in the City Council of Nairobi". *IndexCopernicus Journal*, ICID: 1023459

Nzube S.N.M. and Musyoka A. (2012). "Human capital management practices adopted by the National Social Security Fund". *Research Journal of Multidisciplinary Social Sciences (RJOMSS)*, Vol.1, Issue.

Nzube S.N.M. and Ogot E. (2012). "Factors influencing business internationalization in motor

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Nzuve S.N.M. and Lawrence B.A. (2012). "The extent of compliance with occupational safety and health regulations at registered workplaces in Nairobi" International Journal of Business, Humanities and Technology. ISSN 2162-1357(Print), ISSN 2162-1381(Online), Vol2, No 2. – March

## Staff

In 2012, the School had the following staff complement:

<b>Professor</b>	<b>3</b>
<b>Associate Professor</b>	<b>4</b>
<b>Senior Lecturer</b>	<b>9</b>
<b>Lecturer</b>	<b>43</b>
<b>Assistant Lecturer/TF</b>	<b>24</b>
<b>Technologist</b>	<b>5</b>

## Graduands

In 2012, the School graduated the following numbers:

<b>B.Com</b>	<b>1241</b>
<b>MBA</b>	<b>1229</b>
<b>MSc. Finance</b>	<b>36</b>
<b>PhD</b>	<b>15</b>

## 7.7 School of Economics

The School of Economics is one of the largest units of the University of Nairobi. The School offers specialized training in economics at undergraduate and postgraduate levels. Instruction is organized around the thematic areas of economic theory; applied economics; and, mathematics and quantitative economics.

### Programmes offered

In 2012, the School offered two undergraduate programs: Bachelor of Economics, and Bachelor of Economics and Statistics. At the masters level, the School had four Masters programmes:

Master of Arts in Economics, Master of Arts in Economic Policy Management, Master of Arts in Economics of Multilateral Trading Systems, and Master of Science in Health Economics and Policy. At the doctoral level, the school ran a collaborative PhD program and a local PhD program by course work and thesis.

## Enrolment

In 2012, the School enrolled the following numbers:

<b>Bachelor of Economics</b>	<b>233</b>
<b>Bachelor of Economics &amp; Statistics</b>	<b>331</b>
<b>MA in Economics</b>	<b>76</b>
<b>MA in Economic Policy Mgt</b>	<b>37</b>
<b>MSc. in Health Economics &amp; Policy</b>	<b>31</b>
<b>PhD in Economics</b>	<b>25</b>

## International student component

In 2012, the School had an international student component of 13.

## Research activities

In 2012, members of staff undertook the following research:

Dynamics of formal-informal employment and earnings differentials in Kenya. Supported by IDRC, ESARO – Dr. Wambugu, Prof. Mariara and Prof. Muriithi

Reconciling Africa’s growth, poverty and inequality trends: Kenya case study. Dr. Wambugu, Prof. Mwabu, Prof. Manda and Prof. Bigsten

Labor market institutions and earnings inequality in Kenya. Dr. Wambugu, Prof. Mariara

Livelihood diversification to reduce poverty and increase food security in pastoral areas of Northern Kenya. Work-in-progress; Deans Committee, University of Nairobi- Dr. Gathiaka.

An empirical analysis of livelihood strategies and food insecurity in Turkana County, Kenya, work-in-progress; African Economic Research Consortium, Nairobi.- Dr. Gathiaka & Dr. Mureithi

Structure and competitiveness of the sugar industry in Kenya, work in progress: African Competition Forum and Competition Authority of Kenya- Dr. Gathiaka.

Institutions and performance of services funded by the constituencies development fund (CDF) in Kenya (Japheth Awiti)

Trade liberalization and food security in Kenya. Funded by the WTO chairs Program- Prof. Kiriti Ng’ang’a.

## International links and collaboration

The School maintained active external links collaborating with various institutions in research and consultancy, capacity building, Staff and student exchange, curriculum development, and dissemination of research findings. The institutions that the School entered into memorandum of understanding include: World Vision Kenya, University of Rome Tor Vergata (Centre for Economic and International Relations), Orebro University, Insurance Regulatory Authority, University of Gothenburg in support of the Environment for Development Initiative-Kenya (EfD) 2012-2014.

## Staff

In 2012 the School had a staff complement as follows:

<b>Professor</b>	<b>4</b>
<b>Associate Professor</b>	<b>6</b>
<b>Senior Lecturer</b>	<b>7</b>
<b>Lecturer</b>	<b>18</b>
<b>Tutorial Fellow</b>	<b>8</b>
<b>Senior Technologist</b>	<b>1</b>
<b>Technologist</b>	<b>2</b>

## Graduands

In 2012, the School graduated the following numbers:

<b>Bachelor of Economics</b>	<b>177</b>
<b>Bachelor of Economics and Statistics</b>	<b>139</b>
<b>Master of Arts in Economics</b>	<b>53</b>
<b>Master of Arts in Economic Policy Management</b>	<b>1</b>
<b>PhD</b>	<b>1</b>

## Publications

Kabubo-Mariara J., M.M. Karienyeh & F.K. Mwangi.: Child Survival and Policy Options in Kenya: Evidence from Demographic and Health Surveys. *Journal of Reviews on Global Economics*, 2012, 1, 13-26

Kabubo-Mariara J. (2012). "Institutional Isolation, Soil Conservation and Crop Productivity: Evidence from Machakos and Mbeere Districts in Kenya" *African Journal of Social Sciences*. 2(3): 1-26

Kabubo-Mariara J. (2012) "Natural Resource Discoveries in Africa: What are The Prospects for Economic Transformation?" Final report presented to The African Development Bank June 2012

Gathiaka J.K. Peer effects in smallholder agricultural production in Kenya, *European Scientific Journal*, 8(22):1-13, (2012) <http://eujournal.org/index.php/esj/issue/view/46>

Gathiaka J.K. Livestock farming and poverty reduction in smallholder farms in Kenya, *European Scientific Journal*,8(19): 212-228 (2012)

Gathiaka J.K. Neighbours' soil conservation and crop production in Kenya, *European Scientific Journal*, 8(19): 95-109, (2012). <http://eujournal.org/index.php/esj/issue/view/39>

Gathiaka J.K. Social interactions and returns to farm inputs in smallholder agriculture in Kenya, *European Scientific Journal*, 8 (15): 180-201, (2012). <http://eujournal.org/index.php/esj/issue/archive>

Kiriti-Ng'ang'a, T.W. (2012), "Global Financial Crisis and Remittances: The Case of Kenya," *International Journal of Applied Business and Economic Research Special Issues: Global Financial*

and Economic Crisis Vol. 10, No. 1 (Jan-June) pp.97-111.

Okelo, J and Kiriti-ng'ang'a (2012) Trade discourse in Kenya: some topical issues, Volume 1, School of Economics, University of Nairobi/WTO Chairs. ISBN 9789966163608

Ruigu G. et al., "A Cost Benefit Analysis of Substituting Bamboo for Tobacco: A Case Study of Small holder Tobacco Farmers in South Nyanza, Kenya, in the Science Journal of Agricultural Research and Management".

Muriithi M.K. Comparative Analysis of Economic Lifecycle Deficits in Kenya and Nigeria: Some Estimation Results in health and education: African Statistical journal, Vol. 15 August 2012

Ongoro, T.N. Chapter IV: Transitional Corporations as subjects of International Economic Relations. Pp.70-109. Chapter XVII: International Migration of Capital: Theory and Practice. Pp.460-502., Chapter XVIII: Russia in the System of International Mobility of Financial Resources. Pp. 503 – 517. In International Economic Relations edited by Prof. Evdokimov A.I. (New Edition). Moscow,Prospect, 2012.

## 7.8 School of Journalism and Mass Communication

The School was opened in the University as a UNESCO regional project financed largely by funds from Denmark, Norway, and Austria to cater for students from Eastern and Central Africa. Until 1979, the School offered a two-year undergraduate programme leading to a Diploma in Journalism. From 1980 to-date the School offers a program leading to Postgraduate Diploma in Mass Communication, a Masters Degree in Communication Studies and from January, 2006, a Bachelor of Arts in Journalism and Media Studies. The School is one of the top 12 centers of Excellence in Communication and Media training in Africa and a potential UNESCO Centre of Excellence, and the only one in Kenya.

### Courses offered

- In 2012, the School offered the following courses:
- Doctor of Philosophy (PhD) in Communication and Information Studies (CIS)
- Master of Arts in Communication Studies
- Bachelor of Arts in Journalism & Media Studies
- Bachelor of Arts in Broadcast Production

### Enrolment

In 2012, the School enrolled the following numbers:

<b>PhD in CIS</b>	<b>19</b>
<b>M.A (Communication Studies)</b>	<b>263</b>
<b>B.A (Journalism &amp; Media Studies)</b>	<b>1116</b>
<b>B.A (Broadcast Production)</b>	<b>120</b>



## Research activities

In 2012, faculty members were involved in activities that included the role of development communication for social change in attaining the millennium development goals and the Kenya vision 2030. The role of communication for social change as an integral component of sanitation projects: the case of Kibera; a research project in partnership with University of Denver, and women and youth securing peace in Kenya: preempting election violence in Kenya in 2012.

## International links and collaborations

In 2012, the School maintained its links with: the Ford Foundation, UNDP, The Media Council of Kenya, The Kenya Institute of Mass Communication, The Ministry of Information and Communications (MOIC), Media Focus for Africa, The Media Institute, World Relief Foundation, African Woman and Child Feature Service (AWC) and Volda University.

## Staff

In 2012, the School had the following staff complement

<b>Professor</b>	<b>2</b>
<b>Associate Prof.</b>	<b>0</b>
<b>Senior Lecturer</b>	<b>2</b>
<b>Lecturer</b>	<b>10</b>
<b>Tutorial Fellow</b>	<b>4</b>
<b>Technologist</b>	<b>5</b>

## Graduands

In 2012, the School graduated the following numbers:

<b>M.A (Communication Studies)</b>	<b>111</b>
<b>B.A (Journalism &amp; Media Studies)</b>	<b>129</b>

## Outreach

Students participated in HIV/AIDS awareness during the world AIDS day on 1st December 2012

The School organized monthly media roundtable discussions with practitioners from the industry supported by several partners including Media Focus on Africa, Nation Media Group, Media Council of Kenya among others.

# Finance department

The Finance department is charged with the responsibility of designing, appraisal and implementation of sound financial systems that ensure compliance with IFRS, financial regulations and other statutory guidelines.

## Staff

In 2012, the University had a well developed finance department managed professionally by fully qualified Certified Public Accountants and headed by the University Finance Officer. The University enforced the recruitment and promotion policy whereby only fully qualified accountants are appointed to positions in finance department.

In 2012, the department had a staff complement of 150 spread in the colleges, Student Welfare Authority (SWA), Central Administration and related units like the Library, University Health Services and University of Nairobi Press.

The department continuously trained staff in order to improve service delivery.

## Updates

### Budgeting

During the year under review, the University prepared the Annual Budget in conformity with the State Corporation Act(Cap 446) and the Universities Act 2012.

### Annual Accounts and Audit

During the year, the University prepared and submitted annual statutory accounts to the Auditor General within the stipulated period in compliance with the Constitution, the State Corporation Act (Cap 446), Public Audit act 2003 and the Universities Act 2012.

### Financial Information Management System (FIMS)

The University continued developing the Financial Information Management System (FIMS) to strengthen and improve capturing and processing data and information relating to Accounts Receivable, Accounts Payables and other Resource Management functions.

### Student Management Information System (SMIS)

The University continued developing real-time Students Information Management System. During the year the University integrated the system with the banking system to improve efficiency in management of Students accounts.

## Statement of Financial Position as at 30th June 2012

	2012	2011
	Ksh	Ksh
<b>ASSETS</b>		
<b>Non Current Assets</b>		
Property, Plant and Equipment	93,889,435,264	36,688,895,691
Investments	107,812,008	111,777,103
	<b>93,997,247,272</b>	<b>36,800,672,793</b>
<b>Current Assets</b>		
Inventories	285,063,957	240,640,393
Trade, Receivables and Debit Balances	4,139,388,731	3,959,700,816
Short Term Deposits	2,184,206,744	1,077,365,446
Cash and Cash Equivalents	1,732,516,514	1,552,107,192
	<b>8,341,175,946</b>	<b>6,829,813,847</b>
<b>TOTAL ASSETS</b>	<b>102,338,423,218</b>	<b>43,630,486,640</b>
<b>FUNDS AND LIABILITIES</b>		
Net funds from IGUs and parallel programs	3,432,240,986	3,220,693,906
Special Accounts and Grants	1,153,824,826	716,443,807
General Fund	94,379,409,292	37,468,551,692
Capital Reserves	266,525,431	260,655,340
Trust and Endowment funds	250,756,806	252,925,674
Endowment for General Purposes	16,181,339	16,181,339
Special Capital Development	771,070,420	439,013,939
Revenue Reserves	580,119,805	33,813,647
	<b>100,850,128,904</b>	<b>42,408,279,344</b>
<b>Current Liabilities</b>		
Trade and Other Payables	1,277,272,385	1,101,803,459
Bank Overdraft	211,021,929	120,403,837
	<b>1,488,294,314</b>	1,222,207,296
<b>TOTAL FUNDS AND LIABILITIES</b>	<b>102,338,423,218</b>	<b>43,630,486,640</b>

## Statement of Comprehensive Income for the year ended 30th June 2012

	<b>2012</b>	<b>2011</b>
<b>INCOME</b>	<b>Ksh</b>	<b>Ksh</b>
Capitation Grant	4,586,621,643	4,069,980,570
Special Grant	0	516,501,989
Tuition and other fees	479,996,449	451,303,234
Accreditation fees	900,000	926,000
Other services rendered:	50,761,120	79,014,847
Accommodation , Catering and other income	607,492,967	383,220,203
Transfer from IGUs for specific purposes	3,064,698,716	3,001,812,288
	<b>8,790,470,896</b>	<b>8,502,759,130</b>
<b>EXPENDITURE</b>		
Academic departments	4,722,124,556	4,968,014,524
Administration and central services	1,687,756,750	1,919,024,783
Academic services	227,634,999	263,605,938
General educational services	584,693,905	296,894,153
Maintenance of premises	480,791,287	429,448,400
Staff and students facilities and welfare	303,394,569	279,980,956
Welfare authority (catering services)	216,239,159	207,151,515
Miscellaneous expenditure	21,529,513	18,633,754
	<b>8,244,164,738</b>	<b>8,382,754,023</b>
<b>SURPLUS FOR THE YEAR</b>	<b>546,306,158</b>	<b>120,005,106</b>
Accumulated Surplus brought forward	33,813,647	(86,191,459)
<b>Accumulated Surplus Carried forward</b>	<b>580,119,805</b>	<b>33,813,647</b>
<b>Capital Revaluation Surplus</b>		
During the year under review the University carried out a revaluation of its Land and Buildings and realized a Revaluation Surplus of Kenya Shillings 55,227,626,221		

## Statement of Changes in Equity for the year ended 30th June 2012

	NET FUNDS FROM IGU'S AND PARALLEL PROGRAMS	SPECIAL ACCOUNTS AND GRANTS	GENERAL FUND	TRUST AND ENDOWMENT FUND	SPECIAL CAPITAL DEVELOPMENT FUND	ENDOWMENT FOR GENERAL PURPOSES	CAPITAL RESERVE	REVENUE RESERVE	TOTAL
	KSHS	KSHS	KSHS	KSHS	KSHS	KSHS	KSHS	KSHS	KSHS
<b>BALANCE AS AT 1/7/2010</b>	<b>2,562,730,901</b>	<b>791,393,062</b>	<b>37,425,288,478</b>	<b>216,181,924</b>	<b>0</b>	<b>16,181,339</b>	<b>161,940,099</b>	<b>(86,191,459)</b>	<b>41,087,524,344</b>
SPECIAL RECEIPT FOR CAPITAL DEVELOPMENT					439,013,939				439,013,939
SURPLUS FOR THE YEAR								120,005,106	120,005,106
CAPITAL GRANTS FROM DONORS			46,314,888						46,314,888
CAPITAL DEVELOPMENT RECEIPT			20,000,000						20,000,000
RESEARCH GRANT RECEIPTS		1,646,644,888							1,646,644,888
RESEARCH GRANT EXPENDITURE		(1,721,594,143)							(1,721,594,143)
DEPRECIATION ON RESEARCH GRANTS ASSETS			(23,051,674)						(23,051,674)
TRUST FUND RECEIPTS				69,652,219					69,652,219
TRUST FUND EXPENSES				(32,908,468)					(32,908,468)
INCREASE IN IGU FUND	657,963,004								657,963,004
INCREASE IN CAPITAL RESERVE							98,715,241		98,715,241
<b>BALANCE AS AT 30/6/2011</b>	<b>3,220,693,905</b>	<b>716,443,807</b>	<b>37,468,551,692</b>	<b>252,925,674</b>	<b>439,013,939</b>	<b>16,181,339</b>	<b>260,655,340</b>	<b>33,813,647</b>	<b>42,408,279,344</b>

	NET FUNDS FROM IGU'S AND PARALLEL PROGRAMS	SPECIAL ACCOUNTS AND GRANTS	GENERAL FUND	TRUST AND ENDOWMENT FUND	SPECIAL CAPITAL DEVELOPMENT FUND	ENDOWMENT FOR GENERAL PURPOSES	CAPITAL RESERVE	REVENUE RESERVE	TOTAL
	KSHS	KSHS	KSHS	KSHS	KSHS	KSHS	KSHS	KSHS	KSHS
SPECIAL RECEIPT FOR CAPITAL DEVELOPMENT					332,056,481				332,056,481
SURPLUS FOR THE YEAR			56,828,015,525					546,306,158	57,374,321,683
CAPITAL GRANTS FROM DONORS			46,273,913						46,273,913
CAPITAL DEVELOPMENT RECEIPT			60,587,541						60,587,541
RESEARCH GRANT RECEIPTS		2,298,182,412							2,298,182,412
RESEARCH GRANT EXPENDITURE		(1,860,801,394)							(1,860,801,394)
DEPRECIATION ON RESEARCH GRANTS ASSETS			(24,019,379)						(24,019,379)
TRUST FUND RECEIPTS				71,692,953					71,692,953
TRUST FUND EXPENSES				(73,861,821)					(73,861,821)
INCREASE IN IGU FUND	211,547,081								211,547,081
INCREASE IN CAPITAL RESERVE							5,870,091		5,870,091
BALANCE AS AT 30/6/2012	<b>3,432,240,986</b>	<b>1,153,824,826</b>	<b>94,379,409,292</b>	<b>250,756,806</b>	<b>771,070,420</b>	<b>16,181,339</b>	<b>266,525,431</b>	<b>580,119,805</b>	<b>100,850,128,904</b>

## Statement of Cash Flows for the year ended 30th June, 2012

	2012	2011
	Ksh	Ksh
<b>Cash Inflows from Operating activities</b>		
General Revenue Surplus/ (Deficit) for the year	546,306,158	120,005,106
Adjustment for Depreciation	226,551,487	431,223,028
<b>Operating surplus/(deficit) before working Capital</b>	<b>772,857,644</b>	<b>551,228,135</b>
Net funds for Income Generating Units	211,547,081	657,963,004
Trust and Endowment Funds	(2,168,868)	36,743,750
Overspent and claimable from Donors	2,130,948	(2,901,338)
Proceeds from sale of Property and Equipment	0	439,013,939
Increase in Special Capital Development Fund	332,056,481	
(Increase)/Decrease in Stocks and Stores	(44,423,564)	(29,138,609)
(Increase)/Decrease in Debtors	(180,784,880)	(637,010,909)
Increase/(Decrease) in Creditors	266,087,018	186,799,455
<b>Changes in Working Capital</b>	<b>584,444,216</b>	<b>651,469,292</b>
<b>Net Cash Flow from Operating Activities</b>	<b>1,357,301,860</b>	<b>1,202,697,427</b>
<b>Cash Outflow from Investment Activities</b>		
Expenditure from Special Accounts and Grants	1,860,801,394	1,721,594,143
Purchase of Noncurrent Assets	599,075,535	549,617,672
Increase/(Decrease)in Investments	3,965,095	14,149,337
	<b>2,463,842,023</b>	<b>2,285,361,152</b>
<b>Cashflow from Financing Activities</b>		
Grants and other income allocated for Capital Fund	46,273,913	98,715,241
Adjustment for Capital Reserves	47,203,511	20,000,000
Receipts for the year from Special Accounts and Grants	2,300,313,360	1,649,546,226
	<b>2,393,790,783</b>	<b>1,768,261,467</b>
<b>Net Increase/(Decrease) in Cash &amp; Cash Equivalents</b>	<b>1,287,250,620</b>	<b>685,597,742</b>
<b>Analysis of Balances of Cash and Cash Equivalents</b>		
Cash and cash equivalent at start of the year	2,629,472,638	1,943,874,896
Increase(Decrease) in cash and cash equivalents	1,287,250,620	685,597,742
<b>Cash and cash equivalents at end of year</b>	<b>3,916,723,258</b>	<b>2,629,472,638</b>



## QUALITY POLICY STATEMENT

The University of Nairobi is committed to quality as the guiding principle in its decision making and leadership in the provision of university education and related services to its customers.

To realise this, the University management shall regularly monitor and review its performance for continual improvement and suitability by implementing an effective quality management system based on ISO 9001 standard.





2012  
Annual **Report**

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