



UNIVERSITY OF NAIROBI



Annual Report 2013

OUR VISION

A world-class university committed to scholarly excellence.

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.

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.

Graduation Statistics 2013

Student Population	68,000
DSc	2
PhD	94
Masters	3,409
Bachelors	8,589
Diplomas	2,113



Annual **Report** 2013

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FOREWORD

The 2013 University of Nairobi Annual Report captures the main activities of academic departments and administrative structure units over the last year.

The University has provided an account of itself within its stated mandate of Research, Teaching, Consultancy and Corporate Social Responsibility. 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.

The Report highlights the ICT Infrastructural position of the university as well as the financial status of the 'premier' institution – which have enabled the university to carry out its activities and live up to its motto "Unitate et Labore".

The pictorial section contains selected images of important corporate activities of 2013. We hope that this Annual Report highlights interests for our stakeholders. We appreciate your feed back.

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VICE-CHANCELLOR'S MESSAGE



Prof. George A.O. Magoha
Vice-Chancellor

This report is a clear reflection of the Universities contribution to social and economic development in Kenya. Through promoting excellence in research, intellectual discourse, physical infrastructure development, publication and international travel, links and collaborations, the University has taken the lead in providing the necessary knowledge and skills that will accelerate the country's economy.

2013 was not without hurdles,

these included the downturn on the economy and the decreased level of recurrent funding from the Exchequer. But the University remained focused and determined to achieve excellence by discharging its mandate as a leading institute of higher education and, through prudent management of the human and financial resources, the loyalty of staff, the University was able to provide training for education and to meet Kenya's MDG goals and the Kenya Vision 2030. The report highlights the activities undertaken by staff. The highlights of academic programmes undertaken by the colleges and units is indication/testament of the Universities ability to meet the needs and aspirations of the Kenyan people.

The Report also carried information on the Universities overall performance, and indicates a good state of health of the corporate entity. The synergy and energy demonstrated by staff was a test of the strength of the governance structure within the University. I invite all to read this report and to provide feedback on the issues covered. This is to particularly help us improve on service delivery to our stakeholders and to maintain an effective corporate management structure.

CHANCELLOR, CHAIRMAN OF COUNCIL AND TOP MANAGEMENT OF THE UNIVERSITY



Dr. Idle Omar Farah
Chairman, University Council



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Chancellor



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Vice-Chancellor



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Principal, CAE



Prof. Bernard Aduda
Principal, CBPS



Prof. Isaac O. Jumba
Principal, CEES



Prof. Isaac Kibwage
Principal, CHS



Prof. Enos H.Njeru
Principal, CHSS



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Deputy Principal, Kenya Science (Ag)



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Prof. W. Mwanda
Director, UNITID

DEANS & DIRECTORS



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Dean, Faculty of Arts



Dr. J. Aduda
Dean, School of Business



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Registrar, Administration (Ag)



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



Mr. R. Lugwe
Director, Students Welfare
Authority



Dr. S. Ochiel
Chief Medical Officer

1.00 CENTRAL ADMINISTRATION

1.1 ACADEMIC DIVISION

ADMISSIONS

In 2013, the University admitted 11,588 undergraduate students

EXAMINATIONS

In 2013, the Examination Centre processed 11,635 examinations. The Centre also processed 161 examinations disciplinary/appeal cases and communicated the results to the relevant students within the date of the Senate's recommendation.

GRADUATION

In 2013, the University graduated the following numbers:

Bachelor's degree awards	8,589
Diploma awards	2,113
Masters degree awards	3,409
Postgraduate Diploma awards	106
Doctor of Philosophy Degree awards	94
Doctor of Science	2
Total	14,313

NEW PROGRAMMES

In 2013, Senate approved the following new programmes:

- Bachelor of Real Estate
- Master of Medicine in Thoracic and Cardiovascular Surgery
- Master of Medicine in Plastic Reconstructive and Aesthetic Surgery

- Bachelor of Science in Water Resource Management
- Master of Science in Environmental Governance
- Master of Arts in Theatre and Film Studies
- Certificate in Customs Administration
- Diploma in Tax Administration
- Bachelor of Science in Dryland Economics and Ecosystems Management
- Postgraduate Diploma in Customs Administration
- Postgraduate Diploma in Tax Administration
- Certificate in Theatre Arts
- Certificate in Russian Literature Language and Culture
- Certificate in Japanese Literature Language and Culture
- Diploma in Theatre and Film Studies
- Bachelor of Arts in Literature
- Bachelor of Arts in Performing Arts
- Master of Science in Sustainable Development

In 2013, Senate approved the establishment of the following:

- The African Co-ordinating Centre for Abandonment of Female Genital Mutilation
- KAVI Institute of Clinical Research
- Department of Anaesthesia

1.2 Board of Postgraduate Studies

The Board of Postgraduate Studies (BPS) was established in 1985 in accordance with statute XX (now XXI) to manage and coordinate postgraduate studies in the University of Nairobi

POSTGRADUATE STUDENTS' ENROLMENT

In 2013, BPS processed 8,061 postgraduate applications including 421 doctoral applicants.

GRADUATION

In 2013, the number of postgraduate graduands reached a record high of 3,611 comprising two DScs, 94 PhDs, 3,409 Masters and 106 Postgraduate diplomas, becoming the highest number of postgraduate graduands produced so far in the history of the university.

MARKETING OF POSTGRADUATE PROGRAMMES

In 2013 the University of Nairobi run 305 postgraduate programmes in its six colleges. The Board continued to reach out to those interested in our programmes through participating in local and international exhibitions.

VETTING OF PROGRAMMES

The Board vetted new and revised syllabi for 11 programs.

AWARD OF SCHOLARSHIPS

In 2013, the BPS in a joint meeting with Deans/Directors allocated a total of 132 UON and Sasakawa scholarships. The Board also participated in the National DAAD forum for scholarships distribution.

1.3 ADMINISTRATION DEPARTMENT

STAFF

In 2013, the University had a staff complement of 5,404 members of staff out of which 1,654 were academic staff. In 2013, the status of staff was as follows:

New appointments	373
Promotions	129
Retirements	34
Resigned	65
Termination	19
Deceased	28

The training section report indicates that 63 members of staff went on study leave, fee waiver was granted to 48 members of staff while 40 members of staff benefited from the Staff Training Development Fund.

TRAINING

In 2013, the training section handled: training for front office staff in central administration units on basic sign language and disability mainstreaming; sensitization of UON management on Open Access & Institutional Repository; and training fire marshals.

1.4 Board of Common Undergraduate Courses

INTRODUCTION

The Board of Common Undergraduate Courses (BCUC) is a multidisciplinary department offering critical courses to all undergraduate students.

PROGRAMMES

In 2013, the Board coordinated ten courses as follows:

- 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
- HIV & AIDS

UPDATES

In 2013, the Board maintained a core of common courses as part of the management of common undergraduate programs.

The Board of Common Undergraduate Courses developed and activated its website <http://bcuc.uonbi.ac.ke/> The board also went live on facebook <http://facebook.com/> and its twitter handle is @bcuc_uon.

1.5 Student Welfare Authority

INTRODUCTION

The Student Welfare Authority (SWA) is the hospitality wing of the University. SWA is mandated to provide quality and affordable accommodation and catering services to enhance student welfare.

REVENUE COLLECTION

In 2013, SWA realized KES.216.8 Million from its operations in catering, accommodation and income generating activities.

REPAIRS AND RENOVATIONS

During the year, SWA undertook repairs/ renovation of its facilities including painting, repairs as follows: Painting was undertaken in one hall and kitchen in Lower Kabete, Chiromo Hall and the ceiling of the Chiromo kitchen, one hall in Upper Kabete, one hall in Kikuyu, Mamlaka block B (rearview). Repair work was undertaken for T.V room Chairs, Lower Kabete, Washroom partitions in one hall in Women's Hall, and replacement of worn out flush doors in Parklands.

CHALLENGES

In 2013, SWA faced challenges that included ; the continued rising costs of goods and services against constant selling prices of accommodation and catering services; limited financial resources, over used facilities, inadequate bed space.

STAFF

In 2013, SWA had the following staff complement:

Grade II	165
Grade III	113
Grade IV	85
Grade A	5
Grade AB	56
Grade ABC	56
Grade B	1
Grade BC	6
Grade C	2
Grade CD	20
Grade E	1
Grade DEF	17
Grade EF	12
Assistant Registrar	8
Senior Assistant Registrar	2
Deputy Registrar	1
Registrar	1
Total	527

1.6 Centre for International Programmes and Links [CIPL]

INTRODUCTION

The Centre for International Programmes and Links [CIPL] was established in November 2001 and charged with the responsibility of initiating, promoting, facilitating and coordinating international programmes and links, staff and student exchanges and mobility, collaborative research projects and worldwide networking.

The Centre acts as a window for internationalization of the University of Nairobi (UON), and works to provide

better services to international students and faculty in addition to fostering global partnership linkages for national development.

ACTIVITIES

In 2013, CIPL facilitated the signing of 20 bilateral collaborations with renowned international universities, organizations and industry around the world. These collaborations mainly focused on joint research and publications, exchange of academic material(s) and publications and mobility among researchers and students.

The Centre also engaged with other institutions to establish linkages, through these linkages, the Centre leveraged funding from European Commission funded projects (AFIMEG, ARISE, ANGLE), Commonwealth scholarships and Education International (EI,) among others.

During this period, the Centre facilitated staff and student study abroad programme in France, South Africa, South Korea and Japan, while 15 students studied in foreign institutions. In addition, several students were facilitated on industrial attachment locally. The Centre facilitated the appointment of six visiting professors in teaching and research activities on an exchange programme. The Centre also realized a significant improvement in the proportion of incoming and outgoing international students and staff increased as compared to the previous year.

In 2013, there were 130 International students registered in the colleges. During the year CIPL updated its webpage in compliance with corporate requirements. Other features in the webpage update include face book, twitter, photo gallery and videos which have all become interactive and made the website more robust.

The CIPL will continue to work with all sections of the UON in order to continuously make our University, which has always had a distinctly international profile, attractive by ensuring high quality research in all academic disciplines.

CIPL's strategic activities for 2013 included marketing the activities of CIPL locally and internationally by use of mass media, websites, workshops and exhibitions. The Director attended several workshops related to fundraising, MOU implementation and European Commission scholarship opportunities during the year as summarized in below:



Exchange students from the US with colleagues at the College of Health Sciences.

MOU Implementation	South Korea	Shanghai Finance University
Consortium meeting	Fiji	University of South Pacific
International Africa Forum meeting	Sydney, Australia	University of Sydney
Student exchange @ Co- Research	Daejeon, Korea	Hanbat National University
WHO AGISAR Meeting	Bogota, Colombia	World Health Organization
Collaboration workshop	Cape Town, South Africa	University of Cape Town



Some of the International students socializing during International students Day at the Central Catering Unit on 8th November 2013

WAY FORWARD

The Center for International Programmes and Links 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.

CIPL will maintain data on active and inactive MOUs/MOAs and data on international student enrolment.

1.7 Construction & Maintenance Department

The department is charged with the responsibility of developing and managing new capital projects and maintaining the existing physical facilities. One example of new capital projects is the beginning of construction works for the proposed University of Nairobi Towers, a 22 storey building that is set to alter the landscape of the University of Nairobi. By the end of 2013, the construction progress was 40 percent complete.

COMPLETED PROJECTS

In 2013, the department completed a number of projects as follows:

- Phase 1 of the proposed construction of SEMIs Laboratory at CAVS
- Supply, Installation and Commissioning of a 500 KVA generator at set at School of Engineering
- Drilling and equipping of boreholes at Kikuyu Campus, CCU & Upper Kabete Campus
- Prefabricated classrooms at Lower Kabete campus
- Refurbishment of Embu University College

STRATEGIC ISSUES

In 2013, the department faced the following challenges:

Development of state-of-the-art physical facilities that support the core functions is hampered by PPOA regulations. It is difficult to attract and maintain high caliber and qualified staff due to lack of motivation and low emoluments offered. There is need for increased funding for capital development and maintenance of buildings.

FUTURE PROJECTIONS

The department intends to attract and maintain high caliber and qualified staff to enable it meet the requirements of developing state-of-the-art physical facilities that support the core functions of the University.



Laying the foundation of the ongoing construction of the University of Nairobi Towers.

1.8 Office of the Dean of Students

The office of the Dean of Students is primarily concerned with the holistic growth, development and well being of students in support of the universities vision, mission, and objectives.

The office encourages students' positive involvement in internal and external events and programmes often planning and facilitating activities with the student community to enhance professional and personal well-being and nurture the right values, strong social responsibility and responsible citizenship.

STUDENT OUTREACH ACTIVITIES

In 2013, students engaged in activities that included tree planting, peace through service forums, community service, free medical camps, drug abuse sensitization, visits to children's/old people's homes, mentorship fellowships, legal aid clinics and community cleanups.

ADVOCACY AND LIAISON ACTIVITIES

The Office of the Dean of Students represented student welfare interests in various University committees, appeal and disciplinary hearings and in special meetings and task forces.

PLACEMENT SERVICES

In 2013, the placement office organized 33 career talks, attended by over 4000 students. The organizations that participated in the presentations 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, BAT, PKF and General Electric Company. Students were offered attachments by various organizations amongst which included the United Nations Office In Nairobi (UNON); ICRAF, CFC, Maersk International, TNT, Bamburi, varied banks, including Cooperative Bank, Barclays, and Kenya Commercial Bank.

CHAPLAINCY

In 2013, the Catholic Chaplaincy organized two leadership workshops away from campus. At the community level, the chaplaincy guided, and 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, further, the chaplaincy provided meeting space at St. Pauls Chapel for the AA (Alcoholics Anonymous) for the benefit of students and staff of the University.

The Muslim chaplain organised a leadership and mentorship seminar at the CCU for all Muslim students in the University; in addition, the Chaplaincy organised and supported the annual Quran recitation competition. Students participated fully and the Muslims Students Association of University of Nairobi (MSAUN) provided gifts to the winners of the competition. During the holiday of Eid ulFitr, MSAUN in conjunction with the chaplaincy organized lunch for Muslim students in all campuses. Donations made by students and well wishers were a welcome contribution towards the expenses of preparing the lunch.

In every month, of 2013, the MSAUN organized talks, in which Muslim scholars addressed relevant topical issues.

PEER COUNSELORS TRAINING

In 2013, over 100 students were trained in peer counseling and life skills. These students now counsel other students who need assistance and watch out for early warning signs of possible problems.

STUDENTS WITH SPECIAL NEEDS

In 2013, the office provided support services, advocacy and advice on issues related to special needs. In addition the office provided disability aids such as hearing aids, repaired and maintained the mobility, visual and auditory aids, provided sign language training and interpreter services for the hearing impaired.



Students in a clean-up exercise in Nairobi.



One of the Google Club members during the launch of Google Students Ambassadors at UoN.

1.9 Estates department

INTRODUCTION

Estates Department is charged with the responsibility of managing the University's physical assets spread out in the campuses as well as in several regions of the country. These physical assets include land, buildings, houses, lecture halls and classroom laboratories, libraries, students' hostels, etc.

In its mandate of managing the physical assets, the department ensures that the University's land is secured by processing and by registering all the parcels in the name of the University. This mandate also include making sure all the University's buildings are well maintained and the staff houses are fully occupied and rents are paid on time.

The Department also undertakes lease administration for University owned commercial building and premises leased by the University.

UPDATES

In 2013, the department planted 100 indigenous trees within the University's compound and the area next to Chancellor's Court. External painting of two residential blocks at Kenya Science Campus and Mamlaka Flats i.e Blocks A,B,C & D was undertaken, and the processing of 4 title documents completed.

In terms of safety, fire assembly points were clearly designated and marked in all our campuses, and all firefighting equipment was serviced as per maintenance schedules.

2.0 Information and Communication Technology Centre (ICTC)

INTRODUCTION

The ICT Centre's mandate is to assist the University enhance the innovative use of ICT products and services to support teaching, learning, research and administrative processes.

UPDATES

VOIP Phase II implementation commenced in October 2013, VOIP and PABX integration was successfully completed for Main Campus, Kikuyu (CEES) Campus and Upper Kabete (CAVS) Campus. ISDN (Integrated Services Digital Network) was also reconfigured and integrated with the new infrastructure.

Wireless Access points were successfully installed at the School of Law (Parklands Campus) and have been active since November 2013. This wireless deployment is based on a new technology known as the Beam Forming Technology which is able to focus the wireless signal to the intended recipients. This enables effective coverage of all the open spaces, hostels, classrooms and staff quarters in Parklands Campus.

In partnership with KENET (Kenya Education Network) which is the only NREN (National Research and Education Network) in Kenya, a wireless network with a very unique feature was set up in Kikuyu Campus. In addition to the wireless signals, this wireless network has Eduroam. Eduroam (education roaming) is a secure, world-wide roaming access service developed for the international education and research community. This pilot project will be rolled out to the rest of the University in due course.

The ICT Center rolled out a Corporate Antivirus solution (Kaspersky) in the entire University. This was occasioned



by the fact that the University network extends to several colleges which need to exchange data. In response to the security needs of such an extensive network there was need for protecting information, both from deliberate attack and from "non-structured" risks such as the spread of a virus within the network. The ICT Centre installed Kaspersky Endpoint Security on over 2,500 hosts across the colleges in its network infrastructure.

UNIVERSITY RANKINGS

The University System of Websites was continuously updated at the faculty/institute/departmental levels. The content was enriched and the design improved to cater for the needs of diverse stakeholders including interactions through the social media. Consequently, the University continued to perform well in the Webometrics and 4ICU rankings of Universities and Colleges.

Webometrics ranking is based on a criterion that focuses on various indicators, which include: Impact (50%) and Activity (50%). Activity consists of three sub-indicators: presence (1/3), openness (1/3) and excellence (1/3). The University of Nairobi has steadily improved in its performance since 2004 when the first Webometrics ranking was released.

LAN EXTENSION

In 2013, five extramural centers were connected to the University backbone, these are: Nakuru, Nyeri, Kisii, Kakamega and Meru. The Library in Kisumu campus was also interconnected to this LAN extension. This enabled the University fraternity in these extramural centers to utilize all the services and have the same seamless experience available in the mainstream university network.

In addition to the above projects, in order to increase student's capacity to access internet resources Wireless LANS were implemented in five Campuses i.e. Mombasa, Kisumu, Parklands, Kikuyu and Kenyatta.

STAFF

The Center had 130 proficient members of staff working across all the University Colleges . Staff fully embraced the Center's vision, mission and core values thus fostering unity, efficiency and discipline; a perfect blend to create a strong working team. It is due to this that the students and entire University staff have reliable access to ICT services in line with University priorities.

The Center highly appreciates its staff's dedication to their performance of duty and promotes meritocracy. In the year 2013, fourteen members of staff were promoted; with six, five and three members of staff from Management Information Systems, User Support and Network Infrastructure Service sections respectively.

UPCOMING PROJECTS

In line with its strategic plan and commitment to provide quality services, ICT Centre has embarked on a number of projects to ensure that the University aligns itself with modern IT technology demands that will cater for teaching, learning and research applications as well as service delivery systems.

The following projects were in progress for the year 2013/2014.

- Implementation of Wi-Fi networks in the Dental School, and College of Agriculture and Veterinary Studies (CAVS).
- Firewall Upgrade
- Data Center Facilities Refurbishment
- Installation of 3 new servers and Storage Area Networks
- Installation of Microsoft Active Directory and Upgraded Microsoft licenses
- Refurbishment of ICT Centre Corporate Lab
- Centralized printing solution for ICT centre
- Installation of a new 250 KVA generator for the Data center
- LAN & WIFI extension and connectivity to SWA, SMU units and student common rooms and hostels.
- Upgrade of CCTV Surveillance system for JKML Library
- Hyslop building LAN upgrade

The MIS section's planned projects include;

- Automation of the tax filing process on the HRMIS, popularly known as P9
- Online application for degree programmes
- Payment of some levies via mobile money e.g. Examination Center levies
- Automation of the procurement and cash module on the Financial Management System (FIMS).

2.1 Planning division

INTRODUCTION

The Planning Division is located in the Vice-Chancellor's Office and is headed by the Registrar Planning. The Division provides support to the Vice-Chancellor's office and other related units. In conjunction with other departments/units, the Division plays a pivotal role in ensuring successful preparations of annual University of Nairobi graduation ceremonies and regular participation in national agricultural shows and Universities academic exhibitions.

UPDATES AND ACHIEVEMENTS

In 2013, the Division coordinated and facilitated the following activities of the university:

The 2013 Nairobi International Trade Fair (NITF) held between September 30, 2013 and October 6, 2013. For the first time the University recorded sterling performance winning:

- First prize in: the Best university stand; the Best Institution of higher learning in developing advanced technology.
- Second prize in the Best stand in development research institution; Best stand exhibiting agronomic practices to enhance food production and security; Best innovation and invention stand.
- Third prize in : Best research and/or education stand that interprets current show theme; Best stand that promotes national cohesion and integration development; Best stand embracing information Technology and Communication System

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

2.2 University of Nairobi Press (UONP)

INTRODUCTION

The University of Nairobi Press (UONP) was established in 1984 as a company limited by guarantee. Since its inception, the Press has been publishing scholarly books consistent with the primary objectives of the University of Nairobi to disseminate knowledge through publications. This portfolio has made 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 new books as follows:

Mizizi: A collections essays on Kenya's history by MD. Kyule and G.M. Gona

University of Nairobi and the Constitution of Kenya 2010: A Sensitization Process

REPRINTS

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

A Manual on Microscopic Anatomy By J.K Kimani

Elements of Organizational Behavior by Stephen N.M Nzuve

Decentralization and Devolution in Kenya: New Approaches by Thomas Kibua and Germano Mwabu

WORK IN PROGRESS

In 2013, the Press processed the following books for release in 2014:

Classification of East African Crops by J.O. Kokwaro

The Native Son: Experiences of an Entrepreneur by J.B. Wanjui

The Indigenous Knowledge of the Ameru of Kenya by S.A. Mugambi

Effective Teaching Practices by M.Z. Etisi

Polymer Physics by Peter Karanja

EXHIBITIONS/MARKETING TRIPS

In 2013 the Press undertook and attended exhibitions as follows: participated at 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 2013, the Press maintained its publishing partnership with the African Economics Research Consortium (AERC), the World Health organization-Africa Office, Brazzaville and the Collaborative Centre for Gender and Development.

STRATEGIC ISSUES/CHALLENGES

The challenges in scholarly publishing are not unique to any single publisher including UONP. Generally, university presses must keep pace with rapid developments and a highly competitive environment and meet their obligations to the parent institutions. Specifically, UONP is confronted with serious challenges in the contemporary business environment. 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 to engage with UON Press to strategically help the UON Press in enhancing its sustainability. The following are some of areas currently proposed is the way forward:

There is need to support implementation of provisions in the UON Research Policy that recognize the University of Nairobi Press as a key channel for dissemination of results of UON research:

This will achieve the following:

- Harmonising the publishing of University research work to make it more accessible.
- Building the image of the UON with consequent benefits including worldwide recognition and establishment of collaborations, and enhanced web ranking and hits on the web site.

In order to enhance the revenue generation capacity of UONP, the current mandate of UONP of scholarly publishing should be expanded to allow for investment in other income generating publishing activities such as the following:

- Publishing in other areas as determined by the market rather than sole reliance on unsolicited manuscripts of a scholarly nature.
- Buying and selling publishing rights.

UONP will require technical advice to facilitate the identification and implementation of income-generating activities in other areas to enhance its revenue-generation capacity. Partnership with Management will be critical on this aspect.

2.3 Library Department

INTRODUCTION

The mission of the University of Nairobi Library is to provide quality information services that will empower the University in carrying out its core activities of teaching, learning, research, consultancy and community service.

The Library system comprises of the Main Library, thirteen College and branch Libraries spread out in the various campuses of the University.

UPDATES

Stock

The library stock stands at over 760,000 Volumes of books and bound journals acquired through purchases and donations.

Electronic Journals

The Library provides access to over 71,000 peer reviewed full text electronic journals in all disciplines. Access to electronic resources has been enhanced through expansion and equipping of computer laboratories and other access points throughout the University. In addition, the Library provides document delivery services through the British Library Document Delivery services.

Electronic Books

The Library has subscribed to over 56,000 electronic books. More e-books are made available from open access through the library portal.

National Gender Research and Documentation Centre

This was launched on 21st June 2013. The Centre is a collaborative programme between the University of Nairobi, UNESCO and the Ministry of Devolution and Planning. Its aim is to facilitate documentation on gender and peace building activities in Kenya and the Great Lakes region. The Centre is located on the 3rd floor of the Jomo Kenyatta Memorial Library.

STRATEGIC ISSUES

Enhancing Visibility

In 2013, the Department concentrated its efforts on enhancing the visibility of the University's research output by digitizing and uploading available content to the Institutional Repository (IR). In this period, 58,530 documents were uploaded.

In September 2013, the department established a digital history of the University. It has 2,300 records including documentaries, featured news, pictures and press clippings. These were sourced from the Library, departments, and media houses among other sources.

Engaging Stakeholders

The Library open days and other University forums have also seen an increase in visits to the Library as well as hits on the Library website. By December 2013, the Library had recorded 873,993 hits on its website.

Creativity and Innovativeness

- A lot of energy has been invested in enhancement of staff creativity and innovativeness to improve delivery of services. This has resulted in implementation of innovative services like the electronic resources discovery service (KIOX) available through the Library portal.

Security

Anti-theft book detectors have been installed in two libraries while staff has been sensitized on security issues.

Partnerships and Linkages

The Department has also put a lot of emphasis on fostering of networks, partnerships and linkages to enhance its competitiveness nationally, regionally and also globally. Such networks have enriched the Library in terms of sharing resources, expertise and capacity development.

ACHIEVEMENTS

Enhancement of facilities and Services

- Installation of anti-theft book detectors in School of Business and College of Architecture and Engineering Libraries.
- Setting up of a computer lab in School of Law.
- Establishment of Masters in Information Science (MLIS) programme that saw the first intake of 21 students in January 2013.

Collection Development

- Setting up of a multimedia collection in the Main Library with over 400 CDs, cassettes and DVDs.
- Acquisition of over 9,161 volumes of books through purchases and donations.
- Uploading of 58,530 documents to the Institutional Repository

Development of University's Plagiarism Policy

The policy was adopted by the University in March 2013.

Collaborating institutions

In 2013, the Department engaged in various activities through collaborations with the following institutions and Organizations; Kenya Library and Information Services Consortium (KLISC); International Network for Availability of Scientific Publications (INASP); Electronic Information For Libraries (EIFL); The World Bank; UNESCO; UN Habitat; Kenya Institute for Public Policy Research and Analysis (KIPPRA); Partnership for Advanced Clinical Education (PASC); and BioMed Central.

Community Outreach

- The Department held an Open Day in October 2013 whose aim was to promote Library services as well as reach our stakeholders.
- Staff from the Department visited Kirigiti Girls Rehabilitation Centre in Kiambu where they participated in various activities like planting of trees, motivational talks among others.
- To enhance environmental protection, the staff participated in planting of trees that was organized by CAVS at Kanyariri farm.

- The Department also participated in the Nairobi Trade Fair from 4th to 6th October 2013, as well as The Commission of University Education Exhibition at KICC from 20th to 22nd June 2013.

STAFF MATTERS

Changes in the Department

- The University Librarian Ms. Salome Munavu retired and a new Director, Dr. Sophia Kaane was appointed in November 2013.
- A new Senior Administrative Assistant; Ms. Jacqueline Mwangi was also appointed and reported to office in June 2013.
- Dr. George King'ori graduated with a PhD from Moi University in December 2013.

Professional Activities

Dr. Sophia Kaane, the Director attended a meeting of INASP Country Coordinators to review the activities of various consortia in partner institutes in Africa held in Oxford, UK in December, 2013.

Ms. Agatha Kabugu, Deputy Director (Planning) attended the 4th Carta Faculty Administrators Workshop in Nairobi in September 2013 as well as the 3rd Global Congress on IP and the Public Interest and the Open A.I.R. Conference on Innovation and IP in Africa at the University of Cape Town. She also attended the Intellectual Property Management Office (IPMO) Workshop held at Machakos Garden Hotel on 6th to 7th September 2013 and Technology and Innovation Support Centers (TISC) meeting in Boma Hotel, South C between 3rd and 5th December 2013.

Mr. Hudson Liyai, Deputy Director (Administration) attended the Training seminar of the Consortium for Advanced Research and Training in Africa (CARTA), University of Dar-es-Salaam, from March 4th to 8, 2013. He made a presentation on the Digital Repository at the University of Nairobi at a sensitization workshop by Board of Postgraduate Studies on 10th December, 2013. He also presented on Research Development Advisory Board (RDAB) Retreat in Maanzoni Lodge between 16th and 18th August 2013.

Mrs. Jacinta Were, Deputy Director (Technical) presented on Anti plagiarism and related issues in a sensitization workshop by Board of Postgraduate Studies on 10th December, 2013. She also presented in a conference on Open Access in Africa, held in Nairobi, Kenya on 30th April 2013.

Mr. Felix Rop, ICT Technician attended a DSpace Developers Training workshop in Addis Ababa, Ethiopia from 28th October to 2nd November 2013.

Ms. Rosemary Otando, Systems Librarian, attended the Electronic Information For Libraries (EIFL) General Assembly meeting held between 11th and 13 November 2013 in Istanbul, Turkey. She also attended The Open Access: Knowledge Sharing and Sustainable Scholarly Communication To Raise Visibility and Accessibility in Kenya, Tanzania and Uganda" project kick-off meeting in Dar-es-Salaam, Tanzania between 13th and 15th March 2013.

Training Workshops

The department organized the following workshops;

- Systems Librarians Training held at University of Nairobi between 9th and 12th December 2013. It was attended by two members of library staff.
- Security training for Library staff facilitated by the unit where 20 members of staff participated in June 2013.
- E-resources training (EBSCO) attended by 19 members of staff members on 15th December 2013.
- Website development and creation of blogs in which 91 members of staff participated in June and October 2013.

- Classification Web Workshop held in September and October 2013 and attended by 29 members of staff.
- Workshop on Scientific Research Publishing held on May 27, 2013 at CCU and attended by 90 participants representing Researchers and Librarians.
- Training of Trainers Workshop on Open Access and Plagiarism held at the ICTC Computer Lab, Chiromo on 28-29 May 2013 and attended by 45 participants representing Administrators, ICT and Library staff.

University Committees

- The following served in the University Committee that formulated the Plagiarism Policy; Jacinta Were, Hudson Liyai, John Mwangi and Esther Obachi.
- Mrs. Jacinta Were, Deputy Director (Technical) served in the Committee on Documentation and Digitization of University History.
- Ms. Agatha Kabugu, Deputy Director (Planning) served in the University Committee to Conduct Baseline Surveys on Service Delivery Systems.

National Duties

As the institution with the highest concentration of highly trained and experienced professionals, the University of Nairobi Library staff has over the years been invited to service national and international institutions. This is part of the recognition of the leadership role the University provides in other spheres of national and international endeavors.

Dr. Sophia Kaane; Director, Library and Information Services

Chair, Kenya Library and Information Services Consortium (KLISC). The Consortium brings together University Libraries, Research Institutions, Public and National Libraries in Kenya, who collaborate in subscription to on-line resources and training workshops to enhance staff capacity.

Jacinta Were; Deputy Director (Technical)

Retired from the Professional Board of the International Federation of Library Associations and Institutions (IFLA). She continues to serve the organization on its training programmes in developing countries.

Hudson Liyai; Deputy Director (Administration)

Member, Kenya National Archives Ministerial Advisory Council.

Agatha Kabugu, Deputy Director (Planning)

Member, Kenya Bureau of Standards, National Technical Committee on Information Services, Treasurer, Kenya Library and Information Services Consortium (KLISC.) and Country Licensing Coordinator, Electronic Information for Libraries (EIFL).

Rosemary Otando, Systems Librarian

Country Coordinator, Electronic Information for Libraries (EIFL). Facilitates worldwide access to digital information in developing and transition countries.

CHALLENGES

The increasing population of students has led to;

- Shortage of space in all campus libraries. This is more acute during the examination periods.
- Overstretched facilities, furniture and equipment
- Constant maintenance and repairs is required for buildings, furniture and computers.

- Strain on the available staff.
- Frequent power outages that have had a negative effect on electronic library services.
- Lengthy procurement process resulting in delays; the situation is further complicated by the introduction of Value Added Tax (VAT) on books.

FUTURE PROJECTIONS

- Improvement of ICT facilities and equipment to increase access to electronic resources.
- The Department will adopt a more proactive role in promotion of available resources and sensitization of students and staff on open access and plagiarism.
- Enhancement of staff performance through training, seminars and workshops.
- Enhance security of resources and staff through acquiring the necessary equipment.
- Embrace corporate social responsibility by participating in community outreach activities.

STAFF

Director	1
Deputy Directors	3
Senior Librarians	13
Librarians	8
Senior Library Assistants	24
Senior Admin. Assistant	1
Library Assistants	64
Binders	11
ICT Technician	1
Secretaries	6
Photographers	2
Drivers	1
Senior Messenger	1
Library Attendants	7
Cleaners	10
Accountant	1
TOTAL	154

2.4 Department of Sports and Games

The Department is as old as the University, dating back in the late 1960s. The Department of Sports and Games is located in Hall three (3) behind the students' clinic, off State House Road.

The Department has four (4) staff at the Central office and a Games Tutor in each of the Colleges/Campuses.

ACHIEVEMENTS

In 2013, the department realized the following achievements:

- Enrolled and sustained most of the University teams in the National leagues and tournaments (i.e Rugby, Basketball, Volleyball, Soccer, Hockey, Swimming, and Handball among others).
- Crowned the National ZUKU sponsored basketball (1) league champions in November, 2013.
- Achieved elitism in a number of students (e.g in the month of July 2013, a female swimmer qualified and participated in the World University Games held in Kazan, Russia).
- Realized wellness programme in a large number of students through the existing sports programmes, the students were networked to the corporate world for employment.
- Awarded scholarships (e.g sports on and others) to excelling students particularly in Volleyball, Soccer and Track athletics.
- During the 3rd Edition of the Universities women sports day, UoN were second overall.
- Crowned the champions of Soccer Nairobi Branch.

CHALLENGES

- Lack of enough office space.
- Inadequate allocations of financial resources to run students' sport fixtures, buy equipment and kits, develop, maintain and or repair sport facilities.
- The ratio of existing Technical staff overstretched for the required services (i.e about 50,000 students against seven Games Tutors)
- Lack of adequate support staff at both college and university level.
- Difficulties in incorporating the upcoming campuses in the existing sport programmes and sport facilities.
- Inadequate sport facilities and equipment to cater for the ever increasing student population.
- Lack of centralized departmental transport facility to coordinate students' sport programmes.
- Lack of a University gymnasium facility for both students and staff.

FUTURE PROJECTIONS/WAY FORWARD

- Request and follow-up approval of extra technical staff.
- Continual follow-ups with University Management the establishment of a gymnasium complex within the main campus.
- Initiate teaching programmes to offer diploma certificates in refereeing, sport psychology, sport pedagogy, swimming instructors and life saving.
- Review the existing departmental structure to accommodate the departmental expansion for effective services.
- Develop additional sport facilities at both College and University level.
- Follow-up with corporate world the award of scholarships to excelling student athletes.

2.5 University Health Services

University Health Services (UHS) is mandated to provide quality healthcare of international standard to the University community, in pursuit of the universities vision and mission. In this regard, UHS commits to manage the resources at its disposal in a transparent and accountable manner.

UPDATES

In 2013, the department uploaded material related to recent development in health care delivery for members of staff to read.

The department sustained the provision of quality health care to the University community, acquired two new ambulances and a new saloon car for the Chief Medical Officer. Further, the department renovated and painted the student clinic, and more nurses, clinical officers and cleaners were recruited.

CHALLENGES

In 2013, the department faced the following challenges: limited/inadequate authority to determine levels of 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, ambulances and personnel.; rising awareness for health care right by consumers.



UoN students and staff donate blood during the drive.

2.1 Faculty of Agriculture

INTRODUCTION

The Faculty of Agriculture has four departments: Plant Science & Crop Protection (PS&CP), Land Agricultural Resources Management & Agricultural Technology (LARMAT), Food Science, Nutrition & Technology (FSNT), Agricultural Economics.

Given that agriculture is still the backbone of the economy and the main source of export earnings, the Faculty plays a pivotal role of improving livelihoods of the Kenya population. Consequently, significant breakthroughs were made particularly in diagnostics of crop pests and diseases, integrated pest management, crop improvement, appropriate crop husbandry technologies to mitigate the vagaries of climate change, production of environmentally friendly goods and services, diversified food products and expertise ready to provide extension and community services. To this end, the Faculty commercialized 11 varieties of beans that are now being sold in supermarkets and is a leader in production of the Bio-fertilizers. The Faculty also established local and international partnerships with institutions and scientists which expanded opportunities for capacity building, knowledge sharing and fund raising.

PROGRAMMES OFFERED

In 2013, the Faculty offered eight undergraduate programmes covering agriculture, food science and technology, food, nutrition and dietetics, range management, management of agro-ecosystems & environment, agribusiness management, agricultural education and extension, and horticulture. The faculty offered diploma and postgraduate diploma training in crop protection, food safety and quality, agricultural information and communication management, food safety and quality , and agricultural information and communication management.

The Faculty run 20 masters programmes covering various fields of specialization: food science and technology, applied human nutrition, plant breeding, horticulture, agronomy, agricultural resource development, crop protection, plant pathology, agricultural and applied economics, agricultural economics, agricultural information and communication management, soil science, range management, land and water management, livestock production system, poultry sciences, animal genetics and breeding

In addition, the Faculty offered a regional PhD in Dryland Resource Management .

ENROLLMENT

In 2013, the Faculty enrolled the following numbers

BSc. Food Science and Technology	35
BSc. Agriculture	93
BSc Range Management	30

BSc Agric Education & Extension	61
BSc Agribusiness Management	92
BSc Food Nutrition & Dietetics	35
BSc. Management of Agro-Ecosystems & Environment	26
BSc Horticulture	27

INTERNATIONAL STUDENTS

In 2013, the Faculty had an international student component of 31

Uganda, DRC, Malawi, Mozambique, Ethiopia, Nigeria, India, and Sudan.

GRADUATES

In 2013, the following numbers graduated:

PhD	7
MSc.	87
Postgraduate Diploma	4
Bsc. Agriculture	53
BSc. Agricultural Education & Extension	27
BSc. Agribusiness Management	29
BSc. Food Nutrition & Dietetics	31
BSc. Food Science & Technology	38
BSc. Range Management	9
BSc. Mngt. Of Agro-ecosystems	29
Diploma in Crop Protection	6
Postgraduate Diploma	4

STAFF

In 2013, the Faculty had the following staff complement:

Professor	11
Ass. Professor	22
Senior lecturer	13
Lecturer	25
Tutorial fellow	11
Graduate Assistant	1
Principal Technologist	1
Chief Technologist	3

RESEARCH

In 2013, faculty maintained the Seed Enterprise Management Institute (SEMI) Project, which is a collaborative initiative funded by Association for a Green Revolution in Africa (AGRA). The Project is led by University of Nairobi. Collaborators including Iowa State University (ISU), International Maize and Wheat Improvement Center (CIMMYT), Kenya Seed Company (KSCo), Kenya Plant Health Inspectorate Services (KEPHIS) and other private and public institutions in the seed delivery systems. The role of SEMI is mainly geared to providing capacity to the seed industry in sub-Saharan Africa mainly through training on seed systems management for seed practitioners. Funded by AGRA.

INTERNATIONAL LINKS AND COLLABORATIONS

1. University of Nairobi (SEMI), CIMMYT, Alliance for Green Revolution Africa (AGRA) and Iowa State University, USA. Prof. Agnes Mwang'ombe, Dr. Njoroge Kiarie and Dr. Florence Olubayo.
2. Center for Sustainable livelihoods, University of Cork, Ireland and the University of Nairobi. Investigators: Prof. Mwang'ombe, Dr. Olubayo and Dr. Wakhungu.
3. ASARECA, Department of Plant Science and Crop Protection
4. University of Nairobi, Department of Plant Science and Crop Protection and University of Stellenbosch (South Africa) and Kwame Nkrumah University of Science and Technology (Ghana)
5. University of Nairobi, Department of Plant Science and Makerere University (Uganda), Ahfad University for Women (Sudan) and University of Kiel (Germany)
6. University of Nairobi and Kenya Plant Health Inspectorate Services (KEPHIS)
7. University of Nairobi and Kenya Agricultural Research Institutions (KARI)
8. University of Nairobi, RUFORUM, IFS, Bioversity International, African Network for Agriculture, IRDCAM- (Benin), PGRRI (Ghana), University of Malawi
9. University of Nairobi, KARI, Egerton University, Cornell University, Food Supply Organization (REFSO)
10. University of Nairobi, KARI, Kenyatta University, Kamurugu/RIDA, KEFRI, Kamumo Products, JKUAT, KENFAP

PUBLICATIONS

1. Ojowi D.O, Ariga E.S, Michieka R.W and Kimenju J.W,. 2013. Farmer-Friendly Strategies of Managing Weeds in Carrot (*Daucus carota* L.) Production, International Journal of Farming and Allied Sciences, Vol., 2 (4): 78-82
2. O.M. Kitonyo, G.N. Chemining'wa, J.W. Muthomi. 2013. Productivity of farmer-preferred maize varieties intercropped with beans in semi-arid Kenya International Journal of Agronomy and Agricultural Research (IJAAR), Vol. 3, No. 1, p. 6-16.
3. G. N. Chemining'wa, P.Mwangi M.W.K. Mburu and J.G. Mureithi 2013. Nitrogen fixation potential and residual effects of selected grain legumes in a Kenyan soil. International Journal of Agronomy and Agricultural Research Vol. 3(2): 14-20
4. P. W. Mwangi, G. N. Chemining'wa, M.W.K. Mburu and J.G. Mureithi 2013. Decomposition and nutrient release rates of selected legume residues in a cold semi arid environment of Kenya. Vol 3 (2): 1-13.
5. Kilalo, D.C, Olubayo, F.M., Ateka, E.M., Hutchinson, J.C. and Kimenju, J.W. 2013. Monitoring of aphid

- fauna in passion fruit orchards in Kenya. International Journal of Horticultural & Crop Science Research, ISSN 2249-4243 Volume 3, Number 1 (2013), pp. 1-18
6. Nzuve, F.M., Tusiime, G., Bhavani, S., Njau, P.N., and Wanyera, R. 2013. Studies of the genetics of inheritance of stem rust resistance in bread wheat. African Journal of Biotechnology, Vol. 12(21), pp 3153-3159.
 7. Nzuve, F.M., Githiri, S., Mukunya D.M. and Gethi, J. 2013. Combining abilities of maize inbred lines for grey leaf spot (GLS), grain yield and selected agronomic traits in Kenya. Journal of Plant Breeding and Crop Science Vol. 5(3), pp 41-47
 8. Mwang'ombe, A.W., Mbugua, S.K., Olubayo F.O., Ngugi, E. K., Mwinga R., Munga, T. Muiru, W. M. 2013. Challenges and Opportunities in Cassava Production among the Rural Households in Kilifi County in the Coastal Region of Kenya. Journal of Biology, Agriculture and Healthcare Vol. 3, No. 10, pp 30-35.
 9. W. A. Oluoch-Kosura, A.W. Muriuki, F. M. Olubayo and D. Kilalo, 2013. Ecosystem Services and Carbon Sequestration in the Biosphere. Chapter 10, Page 209-220.
 10. J. Bigirimana, Kiarie Njoroge, J.W. Muthomi, D. Gahakwa, N.A. Phiri, E.K. Gichuru & D.J. Walyaro. Genetic Diversity among Disease Resistant Coffee Varieties and Cultivars in Rwanda Based On RAPD and SSR Markers, 2013 Journal of Renewable Agriculture JRA, 1(6): 106-112.
 11. K. Ngugi, C..Orek, A.Mwang'ombe, Morphological and Physiological Measurement of the Stay-Green Trait in Transgenic and Non-Transgenic Cassava under Green -House Water Stress Conditions. 2013 Journal of Renewable Agriculture, Sciknow Publications Ltd. JRA, 1(5):77-83
 12. Onyango M. C. Kunyanga C.N. Ontita, E.G. Narla R.D. and Kimenju J. W. (2013). Current status on production and utilization of spider plant (*Cleome gynandra* L.) and Underutilized Leafy Vegetable in Kenya. Genet. Resour. Crop Evol. Vol. 60. No.6 DOI 10.1007/s10722-013-0036-7.
 13. K. Ngugi, J. Cheserek , C.Muchira and G. Chemining'wa Anthesis to Silking Interval Usefulness in Developing Drought Tolerant Maize. Journal of Renewable Agriculture. JRA 2013, 1(5): 84-90
 14. Mbau J. S, Nyangito M.M and Gachene C.K.K and Worden .J. Land use and land cover changes and their implications for human wildlife conflicts in the Semi-arid rangelands of Southern Kenya. Journal of Geography and Regional Planning vol. 6(5) pp: 193-199. 2013.
 15. Nyangito M.M, Nyariki D.M, Ajort A, Kassim F.O and N.K.R Musimba (2013). Analysis of secondary land rights for adaption to climate driven agropastoral systems of South Eastern Kenya. E.Afr. Agric. For. J. 78(1) : 113-118
 16. Nyangito M.M, Nyariki D.M, Ajort A, Kassim F.O and N.K.R Musimba (2013) Analysis of secondary land rights for adaption to climate driven agropastoral systems of South Eastern Kenya. E.Afr. Agric. For. J. 78(1) : 113-118

PAPERS PRESENTED

1. Ambuko, J., P. Yumbya, S. I. Shibairo, M. Hutchinson and W. O. Owino. Efficacy of 1-Methylcyclopropene (1-MCP) in Purple Passion (*Passiflora edulis* Sims) Fruits as Affected by Dosage and Maturity Stage. The American Society of Horticultural Science Conference, Palm Desert Resort, California, USA. 22nd – 25th July 2013
2. Ambuko, J., P. Yumbya and W. O. Owino. Evaluation of Quality and Sensory Attributes of Purple Passion Fruit (*Passiflora Edulis* Sims) Harvested at Different Stages of Maturity. The American Society of Horticultural Science Conference, Palm Desert Resort, California, USA. 22nd – 25th July 2013.

3. Ambuko J., 'Postharvest Loss Management: The Unexploited Front towards Food Security'. The Africa Food Security Conference and Agri-Exhibition. 14-15 August 2013, Laico Regency Hotel, Nairobi.
4. Ambuko J., 'Postharvest Loss Management in Perishables'. Invited paper presented at the Postharvest Handling of Vegetables Workshop organized by the AVDRC – The World Vegetable Center. 20th to 21st August, 2013, Utalii Hotel, Nairobi.
5. Muthamia, J.G.N., P.K. Kimani, G. Chemining'wa and A.O. Esilaba. Enhancing nitrogen fixation and productivity of dry bean genotypes in phosphorus and nitrogen limited areas of central Kenya highlands through *Rhizobium*, *Azospirillum rhizobacteria-Rhizobium* co-inoculation. 27th Soil Society of East Africa Conference held in Nakuru, Kenya 20-25 October 2013.

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 degree courses in 1962.

Currently Faculty offers five (5) degree programs namely; Bachelor of Veterinary Medicine, B.Sc. in Biomedical Technology and B.Sc. in Wildlife Management & related options, B.Sc. in Leather Science & Technology and B.Sc. 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 2013 the faculty enrolled the following numbers:

Bachelor of Veterinary Medicine	139
BSc. in Wildlife Management	18
BSc. in Fisheries	15
BSc. in Leather	21
Diploma in Animal Health & Prod.	19
Diploma in Leather Technology	13
Diploma in Meat technology	36

GRADUANDS

In 2013 the Faculty graduated the following numbers:

PhD	2
MSc.	15
Bachelor of Veterinary Medicine	50
BSc. in Biomedical Technology	24
BSc. in Wildlife Management	16
Dip. in Animal Health and Prod.	11

STAFF

In 2013, the Faculty had the following staff complement:

Professor	16
Assoc. Professor	23
Senior lecturer	26
Lecturer	39
Tutorial fellow	12
Chief technician	16
Senior technician	27

RESEARCH

In 2013, staff were involved in research that included the following: physiological and ecological studies of the unique aquatic life in Lake Magadi, Kenya; conservation genetics and forensics in Kenya, evaluation of traditional herbal therapy for cancer state; evaluation of pain alleviating, anti-inflammatory and



Prof. Geoffrey Maloiy after being awarded a Doctor of Science Degree.

anti-Rheumatoid properties of selected Kenya medicinal plants; development of a biopesticide for use against mosquitoes from selected plants in Msambweni District, Kenya, and animal welfare research and policy in Africa.

INTERNATIONAL LINKS AND COLLABORATION

In 2013, the Faculty had linkages with the following bodies: Global Alliance for Livestock Veterinary Medicine; McMaster University, Canada; University of Johannesburg, South Africa, Great Lakes Laboratory for Fisheries and Aquatic Sciences, Canada; University of Antwerp, Belgium; Universidade Federal do Rio Grande (FURG), Brazil; University of Wyoming, U.S.A; University of Minnesota through its Duluth Campus Medical School; Institute of Anatomy, University of Bern; World Society for the Protection of Animals

At the local level, the Faculty collaborated with several research partners including Donkey Sanctuary Worldwide; Kenya Veterinary Association; Kenya Veterinary Board; Kenya Wildlife Service; International Livestock Research Institute; World Society for Protection of Animals; Kenya Animal Genetic; Resource Institute and Pest Control Products Board.

Industry partners were drawn from a pool of reliable suppliers of animal feeds, surgical equipment and consumables, veterinary pharmaceuticals and biological as well as technical services. Some of these industry partners included Unga Feeds Ltd; Lesukut Ltd; Coopers (Kenya) Ltd; Norbrook (K) Ltd; Bimeda-Assia Pharmaceuticals Ltd

PUBLICATIONS

Mirara A. and Maitho T. 2013. Monitoring rain fed data in order to estimate milk production in Mweiga location, Nyeri County, Kenya. *Livestock Research for Rural Development*, 25 (144) 1-7.

J.M.Nguta*, J. M. Mbaria and W. D. Mvula. Brine shrimp toxicity and in vitro antimicrobial activity of *Piliostigma thonningii* (Schum.) Milne-Redh. [Leguminosae-Caesalpinioideae] from Kenya and Malawi against some pathogens of human and veterinary importance. *Journal of Veterinary Medicine and Animal Health*, Vol. 5(9), pp. 251-256, September, 2013. DOI 10.5897/JVMAH13.0208. © 2013 Academic Journals <http://www.academicjournals.org/JVMAH>

J.M. Nguta, J.M. Mbaria. Brine shrimp toxicity and antimalarial activity of some plants traditionally used in treatment of malaria in Msambweni district of Kenya. *Journal of Ethnopharmacology* 148 (2013) 988-992.

J. M. Mbaria, C. Ochodo and J.M. Nguta. Forensic case of lead poisoning from a battery manufacturing company in Nakuru, Kenya. *Japanese Journal of Veterinary Research* 61 (Supplement): S64-S66, 2013.

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PRESENTATIONS

E.K. Kang'ethe; P. Otto ; G.Nasinyama and R.Kazwala. Development of VPH –CPD modules in East Africa. Kenya Veterinary Association Annual conference, Mombasa, 23rd -28th April 2013.

Kang'ethe, E. K. Health risk analysis of Cryptosporidiosis in urban smallholder dairy production in Kenya: cross-sectoral collaboration and measurement of impact aspects. The Prince Mahidol invitational Award Conference 2013: A World United Against Infectious Diseases: Cross-Sectoral Solutions" Bangkok, Thailand, 28 January – 2 February 2013

P.K. Gathumbi, attended The Kenya Veterinary Annual Scientific Conference at the Whitesands Hotel, Mombasa on "One Health approach in veterinary training and practice" and presented a paper on "Ocular neoplastic lesions of the horse in Kenya from specimens received between 1967 and 2013" on 24th to 26th April 2013

J Muraya, A N Kipyegon, V T Tsuma and E M Mogo; Management of Chronic Gangrenous Mastitis in an Adult Lactating Cow Using Partial Gland Mastectomy. Kenya Veterinary Association 47th Annual Scientific Conference 2013.

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Michael B. Papah, Chris M. Wood, Geraldine D. Kavembe, John Maina, Ora E. Johannsson, Gudrun De Boeck, Adalto Bianchini, Kevin Brix, Kisipan M. Letura, Harold L. Bergman, Lucas F. Bianchini, and Rodi O. Ojoo: Spermogenesis and sperm ultrastructure in Lake Magadi Tilapia, and their possible phylogenetic significance. Kenya's Soda Lakes Workshop, Kenya Wildlife Training Institute, Naivasha, Kenya 4th to 7th Dec 2013.

M.B. Papah, S.M. Kisia, R.O. Ojoo, C.M. Wood, G.D. Kavembe, J.Maina, O.E. Johannsson, Gudrun De Boeck, A. Bianchini, K. Brix, K.M. Letura , L.F. Bianchini, and D.W. Onyango: Lake Magadi ecosystem: Current research trends and future perspectives. 1st International One Health Conference, Hilton Hotel, Addis Ababa Ethiopia, 23rd to 26th Sept 2013.

D. O. Ochwang'i, C. N. Kimwele, J.A. Oduma, P.K. Gathumbi, J. M. Mbaria, S.G. Kiama Medicinal plants used in treatment and management of cancer in Kakamega County, Kenya Regional RISE-AFNNET students'scientific workshop on Natural products; Joint Fellows Scientific Conference in Imperial Royale Hotel, Kampala, Uganda(14th-16th February 2013).

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 centre of excellence in environmental governance and its linkages with peace and democracy. The institute was established in close collaboration with the 2004 Peace Nobel Laureate, Prof. Wangari Maathai and will house her works and walks for posterity. WMI aims to promote good environmental practices and to cultivate a culture of peace by shaping values, ethics and attitudes of its graduates through experiential learning, mentoring and transformational leadership.

The Department of State, together with parallel support from the MacArthur Foundation, has created a wPOWER Hub at the WMI, founded by the late Nobel Laureate Wangari Maathai, at the University of Nairobi in Kenya. The new wPOWER Hub will build the evidence base on women, energy access and climate solutions; hold train the trainer workshops; facilitate African and Indian women entrepreneur and leadership exchanges to build a network of women climate leaders, and build public awareness.

PROGRAMMES OFFERED

In 2013, the Institute offered the Doctor of Philosophy in Environmental Governance and Management and Master of Science in Environmental Governance.

ENROLLMENT

In 2013, the Institute enrolled the following numbers:

Master of Science in Environmental Governance	8
Doctor of Philosophy in Environmental Governance and Management	5

STAFF

In 2013, the Institute had the following staff complement

Professor	3
Assoc. Professor	6
Senior Lecturer	2
Lecturer	5
Tutorial Fellow	2
Graduate Assistant	1

INTERNATIONAL LINKAGES AND COLLABORATIONS

WMI Forges local & International Partnerships

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. WMI (UoN) has also established partnership with International Development Centre of Japan. Inc. (IDCJ) on Sustainable Development Policy in Sub-Saharan Africa countries.

These partnerships will continue to grow as part of WMI's global outreach.

PUBLICATIONS

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ACTIVITIES

The Cabinet secretary for Environment and Natural Resources on 2nd July 2013 visited Wangari Maathai Institute to launch the STAKE project."

The STAKE project is a partnership between the Wangari Maathai Institute, the Green Belt Movement (GBM), Kenya Forest Research Institute (KEFRI) and the University of Copenhagen, Denmark. It is expected to contribute to stability in Kenya by understanding and targeting the underlying factors that lead to conflicts over forest related resources. This three-year project funded by the Danish Development Agency (DANIDA) will also contribute to Kenya's long-term development by mentoring and training the next generation of talented, young academics through provision of scholarships for Masters and PhD training.

On 27th to 29th September, 2013 RISE AFNNET Workshop Nairobi Node was organized by Wangari Maathai Institute for Peace and Environmental Studies. The workshop was held at the Kenya School of Monetary Studies, Nairobi.

WMI organized a Seminar presented by the Chairman of Forest of Society of Kenya (FSK), Mr. Jamleck Ndambiri on Forest Society of Kenya: Enter a New Paradigm, was held on 30th October, 2013.



Prof. Agnes Mwang'ombe, Principal, CAVS hands over bean seed varieties to representatives of Kenya Seed Company.

On 13th November 2013, WMI organized a Seminar that was delivered by The Chairman of Friends of Karura Forest (FKF) Prof. Njoroge Karanja on Participatory Forest Management: The Role of Community Forest Associations.

WMI organized a Seminar on 4th December 2013. This was delivered by Prof. Peter Blaze Corcoran on: The Urgency of Sustainability in Higher Education: The Promise of the Earth Charter.

Wangari Maathai Institute hosted a round table discussion on "Impacts of Trade and Investment-Driven Biotechnological Innovations on Food Safety-Security in Africa" on Wednesday, 18th December, 2013. This meeting was convened by the United Nations University-Institute for sustainability and Peace, Tokyo, Japan and Facilitated by Prof Obi Aginan (UNU-ISP) and Prof Davit Mungai, University of Nairobi

WMI students were privileged to attend an experiential learning course in Managua, Nicaragua (25th February to 5th March, 2013). The theme of the course was Conservation, Development and Communication in Diverse Landscapes: Theories and Methods. The course was hosted by *Universidad Nacional Agraria* (UNA) and facilitated by professors from both UNA and the Swedish University of Agricultural Sciences (SLU). Participants in the course included PhD students from across the globe with diverse backgrounds working on issues related to environment and livelihoods.

WMI students attended the 2013 session on security and democratic governance in Dakar, Senegal. The speakers of the round table discussion included prominent scholars from across the globe who are knowledgeable in various issues related to the African continent and included Dr Kwamena Ato Onoma, current and Founding Director of the Training Center of the Institute for Security Studies (ISS) in Addis Ababa, Ethiopia; Professor Abdullah Cisse, former Dean of the Faculty of Law and Political Science of the University Gaston Berger of Saint Louis (Senegal) and former Vice Chancellor of the University of Bambey (Senegal); Gen-eral Mamadou Seck, former Ambassador of Senegal to the United States from 1993 to 2002 and also served as Chairman of the Board of Directors of the African Organization of Business Intelligence (AOBI).

3.00

COLLEGE OF BIOLOGICAL AND PHYSICAL SCIENCES (CBPS)

3.1 School of Mathematics

INTRODUCTION

The School of Mathematics is one of the largest schools in the University of Nairobi. It offers specialised training in: pure mathematics, applied mathematics, statistics, biometry, actuarial science, modeling and operations research.

PROGRAMMES OFFERED

In 2013, the School offered courses at undergraduate and postgraduate levels in actuarial science, mathematics, and statistics

ENROLLMENT

In 2013, the School enrolled the following numbers:

BSc. Actuarial Science	370
BSc. Mathematics	116
BSc. Statistics	167
PGD Actuarial Science	11
MSc.	134
PhD	12

INTERNATIONAL STUDENT COMPONENT

In 2013, the School had five foreign students from the East African Region.

INTERNATIONAL LINKS AND COLLABORATIONS

In 2013, the School had links as follows: The Eastern Africa University Mathematics Programme (EAUMP); Mathematical Modeling of Vector – Borne Diseases: Africa University Partnership Programme Bilateral Agreement Mathematics Programme: Joint grant under the Kenyan – South African Research.

STAFF

In 2013, the School had the following staff complement:

Professor	3
Associate Professor	6
Senior lecturer	8
Lecturer	20
Tutorial Fellow	9
Graduate Assistant	1

GRAUANDS

In 2013, the School graduated the following numbers:

B.Sc. Actuarial Science	103
B.Sc. Mathematics	18
B.Sc. Statistics	33
M.sc.	38
PGD Actuarial Science	4
PhD	4



Victor Ogesa Juma, the 2013 valedictorian

3.2 School of Physical Sciences

The School of Physical Sciences (SPS) is composed of the following departments: Chemistry, Geography and Environmental Studies, Geology, Meteorology and Physics.

PROGRAMMES OFFERED

In 2013, the School offered programmes at undergraduate and graduate level in chemistry, geology, physics, microprocessor technology and instrumentation, astronomy and astrophysics.

ENROLLMENT

In 2013, the School enrolled the following numbers:

BSc. Science undergraduate programmes	2019
Master of science	166
PhD	33
PGD programmes	24

INTERNATIONAL STUDENTS

In 2013, the School had an international complement of 158 students drawn from Tanzania, Uganda, S.Sudan, Botswana, Liberia, Malawi, Namibia, S.Africa, Congo Zimbabwe and Rwanda.

RESEARCH ACTIVES

In 2013, staff were involved in the following research activities:

Prof. E. Odada	Equatorial Africa Atmospheric Deposition Network (EADN):	April 2010 – March 2014	
Dr. L. Olaka	Mapping the Health Impacts of Geogenic Heavy Metal Pollution in Kilifi District: Policy Regulation and Remediation	2012 – 2014.	
Prof. D.O. Olago	TECLEA – Testing Biodiversity Responses to Climate and Land-use Changes Across East African Highlands	January 2012 to January 2013	
Prof. D. O. Olago	Building Climate Change Adaptation Capacity at African Universities: A Proposal to Establish The Climate Adaptation Research Institute (CARI) at the University of Nairobi -	December 2010 to December 2014	
Prof. N.O. Akech	CTBTO PROJECT Monitoring of nuclear explosions and seismicity using the CTBTO stations PS24 and IS32	2002- Ongoing	
Prof. N.O. Akech	IAEA PROJECT CODE: RAF 8048 - Building Capacity in Support of Regional and Sub Regional Water Resources Planning, Development and Management in Africa	2009-2013	
Prof. NJ Muthama Dr. J.M. Ininda Mr. W.B. Masieyi Mr. D.N. Kariithi	Atmospheric Resources Modeling Centre	<ul style="list-style-type: none"> Department of Meteorology, UON Kenya Meteorological Department 	KMD & UON
Dr. AO Opere	Nile basin Project-Adapting to climate change induced water stress in the Nile River Basin; WP1: Comprehensive Assessments	<ul style="list-style-type: none"> Department of Meteorology, UON 	UNEP (Small Scale Funding)

Prof. NJ Muthama Dr. JN Mutemi Mr. BK Mutai Ms Stella Aura	Sensitization of the communities in Kibwezi on the use of weather and climate information for the enhancement of food security	<ul style="list-style-type: none"> • Department of Meteorology, UON • Kenya Meteorological Department 	African Institute for Capacity Development (AICAD)
Dr. GO Ouma Mr. CB Lukorito	Enhancing the Kenyan capacity on climate risk reduction and climate change adaptation for sustainable agricultural productivity and food security	<ul style="list-style-type: none"> • Department of Meteorology, UON 	Regional Universities Forum for Capacity Building in Agriculture (RUFORUM)
Prof. NJ Muthama Prof. MM Manene Ms Stella Aura Dr. RE Okoola Dr. AO Opere Mr. BA Chanzu Mr. PK Runanu Mr. WB Masieyi	National Survey on utilization of weather products in Kenya	<ul style="list-style-type: none"> • Department of Meteorology, UON • Kenya Meteorological Department • Kenya Agricultural Institute (KARI) • Kenya Police • IGAD Climate Prediction and Application Centre (ICPAC) • School of Mathematics, UoN 	Kenya Government through Kenya Meteorological Department

INTERNATIONAL LINKS AND COLLABORATIONS

In 2013 the School had the following international links and collaborations: IOM linkage programme to study the effectiveness and sustainability of solar lanterns in reducing sexual and gender-based violence among IDPs in Somaliland and Puntland.

Third World Academy of Sciences (TWAS) grant for strengthening the capacity of the School to undertake research in the field of physical chemistry by funding the purchase of specialized equipment.

The Chinese Earthquake Administration, the Norwegian Petroleum Academy, Schlumberger Oilfield Services Limited, Mount Kenya Lakes Project between University of Nairobi, Kenya Wildlife Service, and University of Ghent, Belgium, Arcetormettal Ltd, Liberia and Akita University, Japan, the Somalia Water and Land Information Management, SWALIM is an information management unit of FAO Somalia serving Somali administrations, non-governmental organizations, development agencies and UN organizations to help the Somali communities whose lives depend directly on water and land resources. Upsala and 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 and the Space Environment Research Centre, Kyushu University, Japan

PUBLICATIONS

Naziriwo B. and Wandiga S. (2013): Seasonal variations of phytoplankton species in Lake Victoria and the influence of iron and zinc ions on the dominant species identified during 2006-2007 studies, *Lake and reservoirs: Research and Management*, 18, 259-273. (published in UK)

Machumi F., Midiwo J.O., Melisa R.J., Shabana I.K., Babu L.T., Jin Z, Larry A.W. and Ilias M. (2013): Phytochemical, antimicrobial and antiplasmodial investigations of *Terminalia brownii*, *Natural Product Communications*, 8 (6), 761-764 (published in UK)

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Ndunda B., Langat M.K., Wanjohi J.M., Midiwo J.O. and Kerubo L.O. (2013). Alienusolin, a new 4a-deoxyphorbol ester derivative, and crotonimide C, a new glutarimide alkaloid from the Kenyan *Croton alienus* , *Planta Med*, 79, 1762-1766.

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Mulwa JK, Mwega BW, Kiura MK. "Hydro-geochemical analysis and evaluation of water quality in Lake Chala catchment area, Kenya." *Global Advanced Research Journal of Physical and Applied Sciences*. 2013; 2(1):001-007.

Olago, D., & Aketch, O. (2013).Mineral oil and Gas Resources.In Shroder Jr, J.O,Kenya: A Natural Outlook, Geo-Environmental Resources and Hazards(pp. 11-22). United Kingdom:Elsevier

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Mark SR, Kelly MR, Gheorghe C, Raymond M, Nikolay A, Sansanee C, Navy H, Karen KA, Odada EO, Oscar P, Geoffrey P, Sergei R. "Science and Management of Trans boundary Lakes: Lessons Learned from the Global Environment Facility Program." . 2013.

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- Mutai, B. K., Muthama, J. N. and Ngaina, J. N, Investigation of the weather-dependence of fine particulate matter air pollution over Kenya, JKMS Vol. 7, Nov, 2013
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STAFF

In 2013, the School had the following staff complement:

Professor	20
Assoc. Prof.	15
Senior Lecturer	31
Lecturer	33
Tutorial Fellow	26
Graduate assistant	7
Principal technologist	2
Chief technologist	2

GRADUANDS

In 2013, the School produced the following numbers :

BSc.	299
PGD	37
MSc.	36
PhD	6

PAPERS PRESENTED

Dr. Oludhe	Methods and Tools for VIA Assessment	Vulnerability Impact Assessment (VIA) Scoping Workshop (PREPARED)	Imperial Hotel, Kisumu	July 10-13
Dr. Oludhe	Review of the 2012/2013 Rainfall over the GHA Sub-region	SARCOF 17	Rainbow Hotel, Harare, Zimbabwe	August 28-30
Dr. Mutemi	Performance of GHACOF 34 outlook and the GHACOF 35 outlook: SOND 2013	Thirty Fifth Greater Horn of Africa Climate Outlook Forum (GHACOF 35)	Boma Inn, Eldoret	August 21-23
Dr. Oludhe	Climate change and sustainable development in the GHA	Thirty Fifth Greater Horn of Africa Climate Outlook Forum (GHACOF 35)	Boma Inn, Eldoret	August 21-23
Dr. Ouma	Community Based Climate Services for Disaster Risk Reduction	Thirty Fifth Greater Horn of Africa Climate Outlook Forum (GHACOF 35)	Boma Inn, Eldoret	August 21-23
Dr. Opere	Historical and future climate projections over Mount Elgon area	Consultative stakeholders workshop- Resilience Framework for Climate Change (RFCC) Project	Kisumu Hotel, Kisumu	July 11-12
Dr. Opere	Climate service for risk assessments & risk reduction of hydro meteorological hazards in GHA	Thirty Fifth Greater Horn of Africa Climate Outlook Forum (GHACOF 35)	Boma Inn, Eldoret	August 21-23
Prof. Ng'ang'a	The Use Of Renewable Energy Resources In Reducing Green House	11th KMS Conference on Meteorological Research Applications and Services	Institute for Meteorological Training and Research, Nairobi	Nov 12-16
Dr. Oludhe	Kenya technology needs for climate change resilience	11th KMS Conference on Meteorological Research Applications and Services	Institute for Meteorological Training and Research, Nairobi	Nov 12-16
Prof. Mutua	Major sources of uncertainty in IWRM science and practice as everything Flows	11th KMS Conference on Meteorological Research Applications and Services	Institute for Meteorological Training and Research, Nairobi	Nov 12-16
Mr. Mutai	Investigation of the weather-dependence of fine particulate matter air pollution over Kenya	11th KMS Conference on Meteorological Research Applications and Services	Institute for Meteorological Training and Research, Nairobi	Nov 12-16
Dr. Mukabana	Applied Weather and Climate Prediction	11th KMS Conference on Meteorological Research Applications and Services	Institute for meteorological Training and Research, Nairobi	Nov. 12-16
Ms. Bosire	Accuracy evaluation of the climate forecast system model in predicting rainfall on seasonal time scales over East Africa:	11th KMS Conference on Meteorological Research Applications and Services	Institute for Meteorological Training and Research, Nairobi	Nov. 12-16 2013

Ogacho, A Belaidi, R. Musembi, B. O. Aduda	Surface Passivation of Ultrathin Nanoporous TiO ₂ for Photovoltaic Application	Workshop on Material Science for Energy Conversion	iThemba Labs Cape Town South Africa	4 rd – 8 th Nov 2013
A. Ogacho, J. Mwabora B. O. Aduda	Niobium doped TiO ₂ (Nb:TiO ₂): Effects of doping concentration on the optical properties of TiO ₂ ,	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
M. Kineene, J. Simiyu, M. Munji	Synthesis and characterization of Niobium Oxide thin films for DSSC application	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
Simiyu J.,	Sizing a stand alone photovoltaic electrical solar system for domestic application	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
K. Mutange, P. M. Karimi, R. Musembi, D. M. Wamwangi,	Characterization of Indium doped Tin Selenide (In:SnxSey) Thin films for phase change memory application	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
J.G. Mbae, M. Munji, R. Musembi	Analysis of optimized Deposition temperature of Zn:Al thin film on SnxSeyZnO:AlP-N junction solar cell	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
A.K. Mulu, P. M. Karimi, R. Musembi, D. M. Wamwangi	Characterization of Tin doped Antimony Selenium (Sn:SbxSe1.5x) Thin film for phase change memory applications	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
J.Ndungu, F.Nyongesa,A.A. Ogacho, B.O. Aduda	Nanoporous ceramics for Water Filtration	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
R. O. Onchuru, M. K. Munji R. Musembi	Fabrication and characterization of TiO ₂ /In(OH)xSy/SnS Composite ETA solar cell	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
N. Mugambi, M. Munji, R.J. Musembi	Characterization of SnxSey/SnO ₂ :Ni P-N junction prepared by spray pyrolysis for photovoltaic application	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
C.K. Wangati, W. Njoroge, P.K. Karanja, J.M. Mwabora, R.J. Musembi, J. Simiyu	Deposition and characterization of CuAlB _{1-x} Se ₂ thin film deposited by DC-RF Co-sputtering for photovoltaic application	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
G. Gitonga, R.J. Musembi M. Munji R.	Characterization of SnxSey/SnO ₂ :Co P-N junction deposited by spray pyrolysis for photovoltaic application	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
R.V.M. Otakwa, J.M. Mwabora, and J. Simiyu	The complementarity of Dye-sensitized and amorphous Silicon photovoltaics in field application in the tropics	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013

S. Nyaga, J. Simiyu, M. Munji	Projection for PV sizing for a stand alone "all direct current" Telecommunication system using mismatch factor algorithms	1 st Young Scientists' MSESSE Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
P. Kabuga, W. Njoroge and J. Simiyu	Optical characterization of compounds for dye-sensitized solar cell applications	1 st Young Scientists' MSESSE Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
Muramba, M. Mageto, F. Gaithe, V. Odari, R. Musembi, J. Simiyu, J. Mwabora	Preparation and Characterization of transparent and conducting doped Tin Oxide	1 st Young Scientists' MSESSE Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
A. Alfred, J.M. Mwabora, R.J. Musembi, S.M. Waita	Effects of oxygen partial pressure and substrate temperature on optical properties of sputter deposited CuCrO ₂ thin films	1 st Young Scientists' MSESSE Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
P. Mwonga, N. Makau, G. O. Amolo, S. Lutta, D. O. Okoth J. Mwabora, R. Musembi, C.Maghanga, R. Gateru	Ab-initio Studies of point defects in TiO ₂ : A density functional approach	1 st Young Scientists' MSESSE Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
M.N. Muendo, M. Munji and J. Simiyu	Characterization of TiO ₂ based Dye-sensitized solar cell prepared by screen printing method	1 st Young Scientists' MSESSE Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
P.M. Mwathe, R.J. Musembi, M. M. Munji, B.V. Odari	Optoelectronic properties of Palladium doped Tin(IV) oxide (Pd:SnO ₂) thin films deposited by spray pyrolysis	1 st Young Scientists' MSESSE Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
M.G. Asimwe, T. Otit, J.M. Mwabora	Optical and electrical properties of Magnesium Doped Zinc Oxide for photovoltaic applications	1 st Young Scientists' MSESSE Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
Njogu S M	Fabrication and characterization of Germanium Doped Titanium Dioxide (Ge:TiO ₂) thin film for photovoltaic application	1 st Young Scientists' MSESSE Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
J. N. Nguu, F W Nyongesa, R. J Musembi, B.O.Aduda	Morphological and structural characterization of TiO ₂ /Nb ₂ O ₅ composite electrode thin films synthesized by electrophoretic deposition (EPD) technique	1 st Young Scientists' MSESSE Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
J.P. Eneku, Otit Tom, J.M. Mwabora	Fabrication and characterization of Aluminium and Gallium mono and Co-doped Zinc Oxide thin films by radio frequency sputtering for photovoltaic applications	1 st Young Scientists' MSESSE Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013

S. R. Tsisambo, M.K. Munji, R.J. Musembi	Optical and electrical characterization of $Cd_xNi_{1-x}S$ and Sb_2S_3 thin films for photovoltaic applications	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
S. Ndonge, R.J. Musembi, M.K. Munji	Effect of substrate deposition temperature on the properties of $Sn_xSe_y/ZnO:Sn$	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
C.O. Ayieko, B.O. Aduda, R.J. Musembi, S.M. Waita, P.K. Jain	Performance of $TiO_2/In(OH)x$ composite eta solar cell fabricated from nitrogen doped TiO_2 thin film window layer	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
P. K. Nyaga, R. J. Musembi and M. K. Munji	Effect of Sn Doping on the electrical properties of as prepared and annealed ZnO thin films prepared by Reactive evaporation	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
D. Magero, N. Makau, G. O. Amolo, S. Lutta, M. D.O.Okoth, J. Mwabora, R. Musembi, C.Maghanga, R. Gateru	Hydrogen as an alternative fuel: An ab-initio study of Lithium Hydride and Magnesium Hydride	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
V. Mengwa, N. W.Makau, G. O. Amolo, S. Lutta, M. D. O. Okoth, J. Mwabora, R. Musembi, C.Maghanga, R. Gateru	A density functional theory study of electronic structure of TiO_2 Rutile (110) surfaces with cathechol adsorbate	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
B.V. Odari, R. Musembi, M.J. Mageto, H. Othieno, F. Gaitho, M. Mghendi, V. Muramba	Optoelectronic properties of F-co-doped PTO thin films deposited by spray pyrolysis	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
B.V. Odari, M. Mageto, R. Musembi, H. Othieno, F. Gaitho, V. Muramba	Optical and electrical properties of Pd Doped SnO_2 thin films deposited by spray pyrolysis	1 st Young Scientists' MSESSESA Conference on Material Science & Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
W. Mulwa, N. W. Makau, G. O. Amolo S. Lutta, M. D. O. Okoth, J.Mwabora, R.Musembi, C.Maghanga, R. Gateru	Structural and electronic properties of TiO_2 , $Nb:TiO_2$ and $Cr:TiO_2$: A first principles study	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
A. A. Mulama, J.M. Mwabora, A.O. Oduor, and C. Muiva	Optical properties of flash evaporated $Se_{100-x}Bi_x$ thin films: Effects of film thickness	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
L. K. Munguti, R.J. Musembi, W.K. Njoroge	Optimization of Sn_xSe_y Deposited by reactive thermal evaporation for solar cell, application	1 st Young Scientists' MSESSESA Conference on Material Science and Solar Cell Technology	United Kenya Club, Kenya	28-29 Nov 2013
Kaduki K,	Physics at the university of Nairobi,	High level physics and appropriate solutions to real life problems in developing countries	Yaounde, Cameroon	25-29 Nov 2013

Dehayem-Massop	Research activities in Physics in East Africa	High level physics and appropriate solutions to real life problems in developing countries	Yaounde, Cameroon	25-29 Nov 2013
Birech Z	Ultrafast dynamics of excited states in molecular crystals: The case of tetracene ultrathin single crystals	6th ALC student workshop 2013	Zevenwacht wine estate, Cape town, South Africa	21-24 Nov 2013
Angeyo H, Kaduki K, Dehayem-Massop	Trace quantitative and exploratory analysis by multivariate chemometric laser induced breakdown spectrometry applied to malaria and radiogeothermal diagnostics	RIAO/OPTILAS 2013 VIII Iberoamerican Conference on Optics and XI Latin-American Meeting on Optics, Lasers and Applications,	Porto, Portugal	22 - 26, July 2013
Angeyo H, Dehayem-Massop, Kaduki K	Development of laser education and research towards biophotonics at Nairobi	12th International Conference on Education and Training in Optics and Photonics	Porto, Portugal	23 - 26, July 2013
Birech Z	Types of laser sources and their applications	ALC workshop	ARC Hotel, Egerton university, Kenya	08-13 Sep 2013
Silas Mureramanzi	An investigation on the output stability and properties of photovoltaic PEC cells using semiconductor thin films of CdX(X=S,Se,Te) electrophoretically deposited on TiO ₂ substrate	ANSOLE Mini-symposium	Kenya 2013	9 th May 2013

3.2 Centre for Biotechnology & Bioinformatics (CEBIB)

The Centre for Biotechnology and Bioinformatics (CEBIB) is 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 one (1) student from Rwanda.

GRADUANDS

In 2013, the Centre graduated the following numbers:

MSc.	8
PhD	1

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 formed an integral part of most research activities.

RESEARCH GRANTS AND SCHOLARSHIPS

In 2013, the Centre had a research grant portfolio of KES10 million from various agencies. Some of the institutions and organizations providing support for CEBIB research included Usaid Kenya (Biotech Outreach Programme); University Of Manitoba, Canada; Bill And Melinda Gates Project and World Federation of Scientists.

TRAINING

In 2013, the Center organized training as follows

Date	Region	Venue	Target Group	No of participants
July 21-24, 2013	Africa	Arusha, Tanzania	Korean Bioscience & Biotechnology Forum	Approx. 60
Nov 25-29 2013	Academic Institutions in Kenya	CEBIB	Universities in Kenya	Approx. 40

COLLABORATION AND INTERNATIONAL LINKS

CEBIB 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 were 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 worked with the following networks and partner institutions who have provided grants, staff exchange, student exchange, equipment, sub-awards, and joint grant applications:

Institution	Kind of link	Benefit to Uon	No of Students trained
KEMRI/WELCOME TRUST	Collaboration	Sub-Award, Staff support (APO), Provision of equipment	8
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
REED College, Portland Oregon, USA	Collaboration	Joint implementation of Bioinformatics training workshop targeting postgraduate students in Kenya, Tanzania and Uganda	65

PUBLICATION

Bosire C.M.; Abubakar, L; Ochanda, J; Bosire, J.O. Ligno cellulolytic activities of crude gut extracts of marine woodborers, *Dicyathifer manni* and *sphaecroma terebrans* (2013) *Int. J. Biosci.* Vol, No.125, P134 -144.

Bosire C.M, Ochanda, J, Abubakar, L; Bosire J.O; Culturable gut microbiota of marine wood boring invertebrates, *Dicyathifer manni* (wright 1866) *sphaeroma terebrans* (Bate 1866) and *cirolana* sp. (2013) *J. Bio & Env. Sci* Vol 3, No 11, P 12-20.

Milugo TK, Omosa KL, Ochanda JO, Owuor BO, Wamunyokoli FA, Oyugi JO, and Ochieng JW (2013) Antagonistic effect of alkaloids and saponins on bioactivity in quinine tree (*Rauvolfia caffra* Sond.): Further evidence to support biotechnology in traditional medicinal plants. (*BMC Complementary and Alternative Medicine* 2013, 13:85.

Ananga A, Georgiev V, Ochieng JW, Phills B, and Tsovala V (2013) Production of Anthocyanins in Grape Cell Cultures: A potential Source of Raw Material for Pharmaceutical, Food, and Cosmetic Industries. In: *The Mediterranean Genetic Code - Grapevine and Olive*, by Sladonja B (Ed), Intech, ISBN 980-953-307-597-1.

Okombo J, Abdurahman A, Kiara S, Mwai L, Pole L, Nzila A, Sutherland C J, Ochola-Oyier LI. Repeat Polymorphisms in the Low Complexity Regions of *Plasmodium falciparum* ABC Transporters and Associations with In Vitro Antimalarial Responses. *Antimicrob Agents Chemother*, 2013; 57(12):6196-204

Okombo J, Zongo I, Bousema T, Beshir K, Gadalla N, Roper C, Hallett R, Ochola- Oyier LI, Sutherl and C.J.; The polymorphic linker domain of *Pfmdr1* is associated with resistance-conferring mutations in *Plasmodium falciparum* populations from East and West Africa. *Antimicrob Agents Chemother*, 2013; 57(9):4595-8.

3.3 Institute for Climate Change and Adaptation

INTRODUCTION

The Institute for Climate Change and Adaptation at the College of Physical and Biological Sciences, is the University of Nairobi's response to the phenomenon of climate change and the reality that Africa does not have the manpower to address the challenges that have resulted from the gauntlet that nature has laid down, and are expected to greatly affect the African continent.

COURSES OFFERED

In 2013, the Institute offered studies under the following thematic areas: Policy and Communication; Climate Risk Management and Food security; Human Dimensions and Health; Technology and, Water, Environment and Ecosystems

STUDENT ENROLLMENT

The inaugural Masters and Doctorate programmes in Climate Change and Adaptation were launched in February 2013. The Masters group attracted 27 students and the PhD programme, 62

INTERNATIONAL STUDENTS

The program attracted 4 international students drawn from Ghana, Rwanda, Uganda and Nigeria.

INTERNATIONAL LINKS COLLABORATION

As a concerned stakeholder and hosts of a trans-disciplinary programme in climate change adaptation, ICCA applied for and won, membership to the TRECCAFRICA consortium, and has to date hosted five international students.

RESEARCH

In 2013, staff was involved in research as follows:

Prof. D. Olago	Building climate change adaptation capacity at African universities
Prof. S. Wandiga Prof. D. Olago Dr. M. Opondo Dr. G. Ouma	Isiolo county total value chain evaluation
Prof. S. Wandiga Prof. D. Olago Dr. M. Opondo Dr. G. Ouma	Integrating vulnerability and adaptation to climate change into sustainable development policy planning and implementation in southern and eastern Africa (ACCESA).

3.4 School of Biological Sciences

INTRODUCTION

The School of Biological Sciences (SBS) 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 areas, each with a thematic head: Ethno-biology and Taxonomy; Biological Natural Products; Ecology and Environmental Sciences; Fresh Water and Marine; Genetics and Biotechnology; Insect Science; Microbiology; Physiology and Biochemistry, and Parasitology and Immunology.

PROGRAMMES OFFERED

In 2013, the School offered three undergraduate degree programmes, namely: BSc. (Biology), BSc. (Microbiology & Biotechnology) and BSc. (Environmental Conservation & Natural Resource Management).

ENROLMENT

In 2013, the School enrolled the following numbers:

PhD	13
B.Sc. (Biology)	192
B.Sc. (Microbiology & Biotechnology)	238
B.Sc. (Environmental Conservation & Natural Resource Management)	217
M.SC	92

INTERNATIONAL STUDENT

In 2013, the School had an international student's component of 13 students

STAFF

In 2013, the School had the following staff complement

Professor	7
Associate Professor	8
Senior Lecturer	15
Lecturer	22
Assistant Lecturer	3
Tutorial Fellow	5
Graduate Assistant	4
Principal Technologist	1
Chief Technologist	2

GRADUANDS

In 2013, the School graduated the following numbers

BSc. (Biology)	39
BSc. (Microbiology & Biotechnology)	40

BSc. (Environmental Conservation & Natural Resource**Management) 52****MSc. 23****PhD. 2****RESEARCH**

In 2013, staff was involved in research as follows:

	Research project - Donor
Dr. J. Kanya	Hybrid Rice Production (Sponsored by National Council of Science & Technology)
Prof. G. Nyamasyo	Conservation of Pollinators of Agricultural Importance. Funded by the Global Environment
	Facility through the National Museums of Kenya
Dr. A. Muthumbi	Impacts of open access to mangrove ecosystems on benthic biodiversity Funded by VLIR, Belgium
	Impacts of Bait Fishery on benthic Ecology Egerton University, KMFRI
Dr. V. Wang'odu	Impacts of open access to mangrove ecosystems on benthic biodiversity Funded by VLIR, Belgium
Prof. S. Okoth	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
Dr. P. Wachira	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 <i>Dierania</i> and <i>Gladidus</i> spp against selected opportunistic fungi
Dr. G. Ong'amo	Incidence of climate change on agricultural systems in Kenya funded by Institute de recherche pour le developpment (AIRD)
Dr. D. Odongo	Rural farming 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 cooperation
Prof. Mukabana	Solar power for malaria eradication Funded by COMON Foundation, Netherlands
Dr. D. Kimata	Reproductive biology of the Helmeted guinea fowl in domestic establishments (still looking for sponsorship)
Prof. N. Gichuki	Kenya fish biodiversity assessment. EU and ird France. Wetland ecosystem service to riparian community tana delta Funded by Vsaid
Prof. T. Mukiyama	Capacity Building of Rural Traditional Herbalists in Kenya World bank/Japanese Social Development Fund
Dr. L. Wambua	Bovine Malignant Catarrhal Fever: Using next generation molecular tools to understand the prevalence in Kenya Funded by: NCST

3.5 School of Computing and Informatics

INTRODUCTION

The School of Computing and Informatics (SCI) was formally established in 1977 as the Institute of Computer Science. The School takes its name from the core competencies that it seeks to nurture – computing to cover the theory and science of computation and informatics to exemplify the practical outworking of this theory in technology and application. The School is a regional leader in research, research and development (R&D) and advanced education in computing.

PROGRAMMES OFFERED

In 2013, the School offered programs as follows: B.Sc. Computer Science, Diploma in Computer Science; M.Sc programs in applied computing, information systems, computational intelligence, distributed computing technology, information technology management; Phd program in information systems and computer science.

ENROLMENT

In 2013, the School enrolled 250 students at bachelors level, 198 in the masters programme and 30 at PhD level.

GRADUANDS

In 2013, the School graduated the following numbers:

Diploma Computer Science	64
BSc. Computer Science	63
MSc. Information Systems	40
MSc. Computer Science	30
PhD.	1

RESEARCH

In 2013, members of staff were involved in research that included:

Title	Partners
Mobile Application Development course for Spurring Technological Growth Open Source Moodle e-learning Project	Google /UoN
MIT's-Africa Internet Technology Initiative (AITI) Summer Programme	UON/MIT
Liberation Technologies Program-design Thinking	Stanford University/Nokia/SCI
Sizzle Virtual Center of Excellence	Aalto University/Helsinki Institute of Information Technology/UON/Beijing University/EIT labs Helsinki

PUBLICATIONS

Staff Name	Title of the Paper	Journal
Moturi, C.A.	Use of MapReduce for Data Mining and Data Optimization on a Web Portal	International Journal of Computer Applications, Vol. 56 No.7
Moturi, C.A.	Use of GPS with Road Mapping for Traffic Analysis	International Journal of Scientific & Technology Research, Vol. 1, No. 10

STAFF

In 2013, the School had the following staff complement:

Professor	1
Associate Professor	3
Senior Lecturer	4
Lecturer	11
Tutorial Fellow	4
Graduate Assistant	3
Senior Network Technologists	5
Network Technologist	1
ICT officers	4



H.E. President Uhuru Kenyatta hands over a trophy to the Chairman, Exhibitions Committee, Dr. Fred Otiemo during the 2013 Nairobi International Trade Fair.



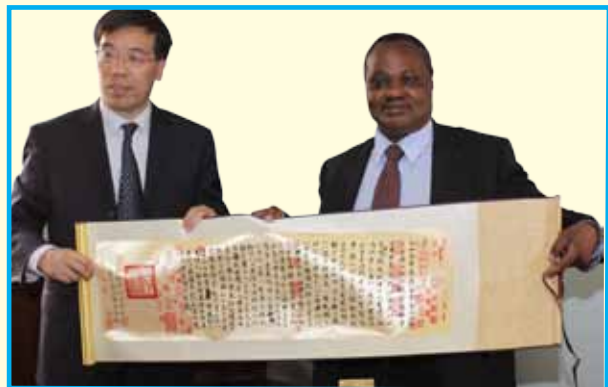
University of Nairobi managers with EACC Chairman, Mumo Matemu and Chairperson of Alumni Association, Dr. Betty Gikonyo during the launch of the Constitution Sensitization Report of UoN community and the general public.



Chairman of Council, Dr. Idle Omar Farah with former Chancellor, Dr. Joseph Barrage Wanjui after the 49th Graduation Ceremony.



Staff and Students march to the closing ceremony of the Constitutional sensitization programme at Taifa Hall.



Prof. Wu Fengmin, President, ZJNU and Prof. Isaac Mbeche, Deputy Vice-Chancellor, Students Affairs.



Chairman of Council Dr. Idle Farah (Centre), Vice-Chancellor, Prof. George Magoha (right) and Deputy Vice-Chancellor, A & F, Prof. Peter Mbithi during signing of performance contract by the Vice-Chancellor.



Visit By IDIS MA students to the Humanitarian Peace Support School in November 2013.



A representative of Royal Media Group receives sanitary towels from Woswa Chairperson, Mickey Ochieng as part of their the contribution towards needy girls in Marigat, Baringo.



EACC Chairman, Mumo Matemu, officially launch a book titled *The University of Nairobi and the Constitution 2010*. With him is the chairperson, Alumni Association Dr. Betty Gikonyo, Vice-Chancellor, Prof. George Magoha, and Deputy Vice-Chancellor, (A&F), Prof. Peter Mbithi.



Edith Mwirigi, Secretary General of SONU (second right) with colleagues at the Annual Commonwealth Youth Parliament in Lilongwe Malawi.



Prof. Henry Mutoro, Deputy Vice-Chancellor academic affairs receives Prof. Olive Mugenda, Vice-Chancellor, Kenyatta University.



The World Trade Organization Director-General Pascal Lamy, Dr Mukhisa Kituyi nominee for the position of Secretary General, United Nations Conference on Trade and Development (UNCTAD) during an interaction at the School of Economics.



Deputy Vice-Chancellor, Student Affairs Prof. Isaac Mbeche receives a trophy won by 'Mean Machine' from the Director, Sports and Games, Mr. Mbaabu Mureithi.

4.00

COLLEGE OF EDUCATION AND EXTERNAL STUDIES

4.1 School of Education

INTRODUCTION

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

PROGRAMMES

In 2013, the School offered programmes with the following specializations in education:

Diploma In Early Childhood Education; Bachelor of education program in arts, science, Early Childhood Education, Physical Education, Information and Communication Technology; Master of Education (M.Ed) with specializations in adult and continuing education, comparative and contemporary issues in education, early childhood education, and measurement and evaluation.

ENROLMENT

In 2013, the School enrolled the following numbers:

BEd (PE)	49
BEd (Arts)	2120
BEd (Science)	534
BEd (ECE)	171
BEd (ICT)	30
BSc (Agri.Educ & Ext)	65
MEd	288
Doctor of Education (EdD)	73
PhD	13

INTERNATIONAL STUDENT'S COMPONENT

In 2013, the School had an international student component of 29

INTERNATIONAL LINKS AND COLLABORATIONS

In 2013, the School had international links with the following organizations: USAID; International Rescue Committee (IRC); University of Linkoping Sweden.

PUBLICATIONS

Muriithi EM, Gunga S.O, Ngesu L.M, K'Odhiambo A.K, Wachira LN. 2013 School Characteristics, Use of Project Method and Learner Achievement in Physics." Journal of Education and Practice. 2013;4(8):196-203. International Journal of Education and Research Vol. 1 No. 10 October 2013

Project Method and Learner Achievement in Physics in Kenyan Secondary Schools :E.M. Muriithi, P.A. Odundo, J.O. Origa, J.C. Gatumu www.ijer.com/journal/july-2013/40.pdf

Muasya J.N. (2013). Students' perception of University of Nairobi's Culture, Kenya Access, Sexual Harassment, and Gender. LAMBERT Academic Publishing - 978-3659-43238-5

Effects of Application of Instructional Methods on Learner Achievement in Business Studies in Secondary Schools in Kenya: P.A. Odundo & S.O. Gunga. International Journal of Education and Research, VOL. 1 NO. 5, ISSN: 2201-6333 (print) ISSN: 2201-6740 (online)

The Flow of Funding for sustainable road maintenance in Kenya: Addressing disbursement of funds, procurement gaps and accountability. 2013, Global Conference on Business and Finance Proceedings Vol 8, COSTA RICA By: P.A. Odundo, D.O. Oronje & C.M. Rambo, Management of Roads Maintenance Levy Fund at Agency Level in Kenya: A focus on challenges, prospects and policy, 2013, Global Conference on Business and Finance Proceedings Vol 8, Costa Rica

Community Awareness, Participation and Perceptions about completion rate of the road maintenance levy fund project in Kenya. 2013, Global Conference on Business and Finance Proceedings Vol 8, Costa Rica: By: P.A. Odundo, D.O. Oronje & C.M. Rambo.

Educational Role of Kenyan Teachers Colleges Sport Association. International Journal of educational Research. Vol. 1 No 7 July 2013 Pp.105-114 by Kamenju J. W. Mwangi F. M and Rintugu E.

Can Education System be Repaired? Ideological Dearth in Kenya's Educational Practice and its Implications for Reforms in the Education Sector. Journal of Educational and Social Research. 2013;3(2), by Gunga S. et al

Effects Of Application Of Instructional Methods On Learner Achievement In Business Studies In Secondary Schools In Kenya. International Journal of Education and Research. 2013;1(5), Gunga S, Odundo P.

STAFF

In 2013, the school had the following staff complement:

Professor	1
Associate Prof.	3
Senior Lecturer	6
Lecturer	22
Assistant Lecturer	2
Tutorial Fellow	6
Chief Technologist	1

GRADUANDS

In 2013 the School of Education graduated the following numbers:

Diploma	2
Bachelors	758
PGDE	2
M.Ed	316
PhD	10

PAPERS PRESENTED

EASA 2014 Conference

Mobile Phones and Quality of Teacher Education: Early Grade Reading and Literacy in Kenya in Paris – February 18-22, 2013 By Dr. Hellen Inyega & Dr. Justus Inyega.

Psychotherapy, (II) Literacy and ICTs: Preliminary findings on building bridges to literacy excellence by Dr. Hellen Inyega & Dr. Justus Inyega. aLeading the Way to Literacy Excellence: The 8th Pan-African Reading for All Conference : Literacy for All 12-16 August 2013

The flow of funding for sustainable road maintenance in Kenya: addressing disbursement of funds, procurement gaps and accountability. 2013, global Conference on Business and Finance Proceedings Vol 8, COSTA RICA:Paul A. Odundo, Daniel Odongo Oronje & Charles M. Rambo.

Management of roads maintenance levy fund at agency level in Kenya: a focus on challenges, prospects and policy, 2013, global conference on Business and Finance Proceedings Vol 8, COSTARICA By: Paul A. Odundo, Daniel Odongo Oronje & Charles M. Rambo.

Community awareness, participation and perceptions about completion rate of the road maintenance levy fund project in Kenya. 2013, Global Conference on Business and Finance Proceedings Vol 8, COSTARICA By: Paul A. Odundo, Daniel Odongo Oronje & Charles M. Rambo.

Munayi S., Nteere J.S., and Gatumu J. Factors affecting the administration of physical education in schools for learners with intellectual challenges in Kenya. Paper presented at African Sports Management Association conference at the University of Dar –es-Salaam 7th -9th December 2013.

4.2 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, Distance, and e-Learning (ODEL) in Kenya. By offering its programmes using ODeL 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, namely: Department of Educational Studies; Department of Extra-Mural Studies; Department of Distance Studies

PROGRAMMES OFFERED

In 2013, the School offered programs at various levels in peace education, distance studies, project planning and management, human resource management, business management, supplies, purchasing and supplies management, public relations, sales and marketing, guidance and counselling, adult education and community development and youth in development work

STAFF

In 2013, the School had the following staff complement:

Professor	2
Associate Professor	2
Senior Lecturer	9
Lecturer	19
Tutorial Fellow	2
Chief Technologist	1
Senior Technologist	3

ENROLMENT

In 2013, the School enrolled the following numbers:

PhD	155
Masters	1230
PGD in Education	30
Bachelors	4162
Diplomas	2561
Certificate in Human Resource Mgt	1,030

GRADUANDS

In 2013, the School graduated the following numbers:

PhD	2
Masters	474
Postgraduate Diplomas	18
Bachelors	1621
Diplomas	1788

INTERNATIONAL STUDENTS

In 2013, the School had an international student component of 6 students drawn from Thailand, Liberia, Turkey, Somali and Tanzania.

INTERNATIONAL LINKS & COLLABORATIONS

In 2013, the School had the following links and collaborations: African Virtual University; Makerere University, Uganda; University of Coventry, UK; Open University of Tanzania

PUBLICATIONS

C.J. Rugendo 2013. Leadership styles and participation in church activities in the catholic diocese of Meru, Kenya. International Journal of Education and Research Volume 1 August 2013

Mulwa, S.A. and Kyalo, D.N. 2013. The influence of principal's, teacher's, and students' attitude on readiness to adopt e-learning in secondary schools in Kitui District, Kenya. ISSN:1857-7881 European Scientific Journal: Vol. 9, No. 05 July, 2013

L. Wambugu & Kyalo D.N. 2013 Open and distance education as a strategy for improving higher education in the 21st century in Kenya – A case of the University of Nairobi. ISSN 2222-1735 Journal of Education and Practice: Vol.4 No.14 2013, August, 2013

Anyango. V., and Nyonje. R.O. 2013 Influence of co-curriculum activities on academic achievement of public primary schools. a case of Kisumu municipality, Kisumu County. African Journal of Educational and social science research. Vol.1. No. 2013; pg 55-63; ISSN 2304-2885, July 2013

Kidombo, H.J , C. M. Gakuu, & P.N. Keiyoro 2013. Fundamentals of management: theories, concepts & practices. Aura Publishers ISBNB 9966 -035-41-7 Sep 2013

Odundo, P.A. and Rambo, C.M. 2013. Influence of leadership styles adopted by public secondary school principals on features motivation: the case of Nyanza Province. International Journal of Disaster Management and Risk Reduction. Vol. ISSN: 1992-2744, MMUST, 2nd Nov. 2013.

Ondola S.O. and Odundo, P. A. 2013. Effectiveness of housing policies and their implementation strategies in the provision of low-cost housing to the urban poor in Kisumu City, Kenya. International Journal of Academic Research in progressive Education and Development Vo. 2 No. 4 ISSN: 2226-6348, U.S.A. october, 2013

Andolo, A, Rambo, C.M. and F. Monari,. 2013. Influence of quality management systems on service provision in the University of Nairobi, Kenya. Journal of African International Business Management (IBUMA) Vol. 3, ISSN: 978-9966-1570-3-4. UoN, Kenya, 2013

Odundo, P.A., Rambo, C.M. and Odhiambo T.A. 2013 Effects of school sased income generating activities on the financial performance of public secondary schools in Kenya Chinese Business Review Vol. 12 No.6 ISSN: 1537-1506 U.S.A. June 2013

Rambo, C.M. 2013 Time required to break even for small and medium enterprises. Evidences from Kenya. International Journal of Business and Finance Management Research Vol. 1 issues IJBFR1 (2013) 1-10 June 2013

C. Osa and Rambo, C.M. 2013 Effects of access to microcredit on the growth of women-owned small and medium enterprises in the central business district of Kisumu: the case of Kenya Women Finance Trust. International Journal of Management and Marketing Research ISSN 933-3153 (Print), ISSN: 2157-0205 (Online) U.S.A. 2013

PAPERS PRESENTED

C.J. Rugendo The effect of reading skills on academic performance of distance learners: a case of the University of Nairobi distance learners. 8th Pan-African Reading for All Conference 12-16th Aug 2013

Kyalo D. N, A.S. Mulwa & Venzi F. Simo, Farmers level of education and training and sustainable irrigation of small scale dryland farming in Kitui Central District: AIBUMA Conference, Nairobi July, 11-12th, 2013

... Relational coordination in the airline industry: getting it right to enhance on-time service delivery at Kenya Airways, Jomo Kenyatta International Airport': Book of Abstracts ORSEA International Conference, Kampala, Uganda October, 17th-18th, 2013

Oronje D., Rambo, C.M. and Odundo P.A. The flow funding for sustainable road maintenance in Kenya: addressing disbursement of funds, procurement gaps and accountability. Conference proceedings ISSN: 2168-0612 S a n Jose, Costa Rica 28th – 31st May, 2013

Members of staff presented papers at the DETA 2013 30/9 – 1/8/2013, in Nairobi as follows:

Kidombo H.J., Gakuu CM & Bowa O. Workforce flexibility in distance education: norm or exception?

Ndiritu A, Kimani G, Gikonyo N & Kidombo H. Transformational leadership skills: A necessary recipe for school principals in the 21st Century

Nzuki P. The relationship between perceived quality dimensions & growth in distance education.

Mutoro JM & Imonje R. The role of collaboration and partnership in teacher education and development in Africa.

Mboroki G & Wambugu L. A comparative analysis of teaching practice performance of distance and on-campus B. Ed Science students at the University of Nairobi, Kenya.

Odumbe JO & Misiko WC Practice of distance education at the Centre for Open and Distance Learning, University of Nairobi.

Mbugua J, Bowa O, Gakuu CM & Mboroki G Awareness as a determinant of educational managers' support for distance learning mode of delivery: The case of Western Region.

Ndiritu A, Kimani G, Gikonyo N & Kidombo H Transformational leadership skills: A necessary recipe for school principals in the 21st Century.

Members of staff presented at the ODeL Conference, 18th April, 2013 UoN, Kenya s follows:

Kyalo, D.N., and Rutere I. The attitude of inmates and adult education custodians towards post-literacy programmes in government prisons in Kenya.

Mulwa, S.A, Kyalo, D.N., Bowa O. & Mboroki, G. Influence of connectivity on readiness to adopt e-learning in public secondary schools in Kitui District, Kenya

Y. S. Mangusho The influence of public university regional expansion strategy on service delivery: a case of university of Nairobi Extra Mural Department, Kenya.

A. S Mulwa, and D. N. Kyalo Influence of connectivity on readiness to adopt e-learning in public secondary schools in Kitui county.

J.Chandi, H. Kidombo, J. Mbwesa, and A.Ndiritu. The effect of time management on academic performance of distance learners: a case of the University of Nairobi distance learners

N. W.M. Gikonyo, C. M. Gakuu, G. Mboroki and A.Ndiritu . University manager's participation in distance education: what role does their level of knowledge in distance education play?

C.M. Rambo. Challenges of women students in distance education programme in Kenyan universities

A. Aseev . Adult learner's in the digital age. challenges and opportunities

Ndiritu, D. Mburu, N. Gikonyo & G.Nyaga . ICT Integration in ECD In-Service Teacher Training: First Foot Forward

J.B Kisimbi. Learners' perception of quality in open and distance education in Kenyan public universities

A.A. Aseev and S. O. Gunga. Use of social media by adult learner's in the digital age: challenges and opportunities

Nzuki,P, O.Bowa, S. Gunga and D. Origa The relationship between perceived quality dimensions and growth in distance education.

5.00 COLLEGE OF HEALTH SCIENCES

6.1 School of Medicine

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 2013, the School had the following staff complement:

Professor	30
Associate professor	57
Senior lecturer	38
Lecturer	114
Assistant lecturer	1
Tutorial fellow	35

COURSES OFFERED

In 2013, the School offered the following programmes:

- 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 2013, the School enrolled the following numbers:

Bachelor of Science in Biochemistry	161
Bachelor of Science in Human Anatomy	4
Bachelor of Science in Medical Physiology	3
Bachelor of Medicine and Bachelor of Surgery	1875
Bachelor of Science in Medical Laboratory Science and Technology	48
Higher Diploma in Diagnostic Medical Ultrasound	4
Master of Science	114
Master of Medicine	557
Doctor of Philosophy	20

GRADUANDS

In 2013, the School graduated the following numbers:

MB.CH.B	275
Bachelor of Science in Biochemistry	67
Bachelor of Science in Human Anatomy	4
Bachelor of Science in Medical Physiology	3
Diploma in Clinical Audiology & Public Health Otology	7
Diploma in Diagnostic Medical Ultrasound	3
Doctor of Science	1
PhD	3
M. Med	106
M.Sc	19

LINKS AND COLLABORATIONS

In 2013, the School maintained the following links:

PACE Project: Improve pre-service HIV education at Kenya's six PUBLIC Universities, Sight Savers International-Scholarship Outreach, East African College of Ophthalmologist (EACO), Light for the world (LFTW), Christoffel Blinden Mission, Vision Mundi, University of Washington, US National Institute of Health (NIH), Centers of Disease control and prevention (CDC), University of Maryland Baltimore.

PUBLICATIONS

Gakuu L.N. Incidence of early post operative surgical site infection after primary total hip athroplasty in the African setting. East African Orthopaedic Journal: Vol 7 NO. 1

Mwangi J. C. Tibialization of the fibula in a child with chronic osteomyelitis of the tibia. East African Orthopaedic Journal: Vol 7 NO. 1

Sitati F. C. Proximal row carpectomy in a 23 year old female with kienbock's Disease. East African Orthopaedic Journal: Vol 7 NO. 1.

Hubacher D, Liku J, Kiarie J, Rakwar J, Muiruri P, Omwenga J, Chen PL. Effect of concurrent use of anti-retroviral therapy and levonorgestrel sub-dermal implant for contraception on CD4 counts: a prospective cohort study in Kenya. *J Int AIDS Soc.* 2013 Mar 1;16:18448.

Mujugira A, Heffron R, Celum C, Mugo N, Nakku-Joloba E, Baeten JM; Partners PrEP study team. Fertility intentions and interests in early antiretroviral therapy among East African HIV-1-infected individuals in serodiscordant partnerships. *J Acquir Immune Defic Syndr.* 2013 May 1;63(1)

Mackelprang RD, Bosire R, Guthrie BL, Choi RY, Liu A, Gatuguta A, Rositch AF, Kiarie JN, Farquhar C. High Rates of Relationship Dissolution among Heterosexual HIV- Serodiscordant Couples in Kenya. *AIDS Behav.* 2013 June 1. [Epub ahead of print]

P. Olang, Omondi-Ogotu, D. Wamalwa. The Association between maternal Hypotension and neonatal academia during caesarean delivery under spinal anesthesia. Publication in *EAMJ* May 2013.

Souza JP, Gulmezoglu AM, Vogel J, Carroli G, Lumbiganon P, Qureshi Zahida, Moving beyond essential interventions for education of mortality (the WHO Multicountry Survey on Maternal and Newborn Health): a cross-sectional study. *Lancet.* 381(9879):1747-175

E. Muge. Genetic Variation of Kenya population of *Warburgia Ugandensis* and important East African Highlands Medicinal Tree Species. *J Life Sci* 4(2): 97-105(2013)

A. Nyachio. Ovarian Tissue cryopreservation by vitrification in Olive Baboons (*Papio Anubis*: A Pilot study. *Gynecol Obstet Invest* DOI: 10.1159/000346084. Published Feb 6, 2013. The Role of Scientists and Clinicians in raising Public support for Animal Research in reproductive Biology and Medicine. *Biology of Reproduction* (2013) 88(2): 33, 1-3

G.W. Kitonyi, Archives of Diseases in Childhood. "Evidence Review of hydroxyurea for the prevention of sickle cell complications in low-income countries" (online first published on August 30 2013 as 10:1136/archdischild – 2002-302387) Mulaku M, Opiyo N, Karumbi J, Kitonyi GW, Thothi G, English M.

J. Nyagol, Assessment of hormonal receptors and Her-2/neu status in breast cancer using cell block: a case study. *Journal African du Cancer / African Journal of Cancer.* August 2013, Volume 5, Issue 3, pp 180-184. J. Nyagol, V. Kisato, W. Ochuk, M. Wakio.



Prof. David Barnard President, University of Manitoba presents a gift to the Vice-Chancellor, Prof. George Magoha.

Bezemer D, Faria NR, Hassan AS, Hamers RL, Mutua G, Anzala OMU, Mandaliya KN, Cane PA, Berkley JA, Rinke de Wit TF, Wallis CL, Graham SM, Price MA, Coutinho R, Sanders EJ. HIV-1 transmission networks amongst men having sex with men and heterosexuals in Kenya. PMID: 23947948 [PubMed - as supplied by publisher]

Bekele A, Kigera JWM. Cancer in Africa, A call to Action (Editorial). *Ann Afr Surg.* 2013; 10: 1

Motanya JB, Saidi H. Recurrence and mortality after surgical treatment of soft tissue sarcomas. *Ann Afr Surg.* 2013; 10: 17-23

Ojuka KD, Saidi H, Rere EC. The role of infiltrative local anesthesia in thyroidectomy. *Ann Afr Surg.* 2013; 10: 30-32

Makanga W, Wasike R, Saidi H. Does a structured data collection form improve the accuracy of diagnosis of acute abdomen in an urban private hospital? *Ann Afr Surg.* 2013; 10: 33-38

Muthaa T, Kaisha W, Githaiga J. Drains after thyroidectomy for benign thyroid disorders; are associated with more pain wound infection and prolonged hospital stay. *Ann Afr Surg.* 2013; 10:2-6

Butt F, Ikito A, Chindia ML, Dimba E. Ipsilateral synchronous manifestation of an HIV-infection associated plunging ranula and sublingual salivary gland sialocoele: a review and case report. *Anat J. Afr.* 2013; 2(1): 97-99

Loyal PK, Butt F, Ogeng'o JA. Branching pattern of extraosseous mental nerve in a Kenyan population. *Craniofacial Trauma Reconstruction* 2013; 6: 251-256

Ogeng'o JA, Ongeti KW, Kilonzi J, Maseghe P, Murunga A, Machira J, Mburu E. Luminal dimensions of left anterior descending coronary artery in a black Kenyan population. *Anat Physiol* 2013; 3: 123. Doi: 10.4172/2161-0940.1000123

Kigera JWM, Mukwaya S, Katusiime A. The relationship between functional absence of the flexor digitorum superficialis to the fifth digit and absence of the Palmaris longus. *EAJ* 2013; 7: 11-13

Kigera JWM, Gakuo LN. Is there a role for prolonged post-operative antibiotic use in primary total hip arthroplasty in the African setting? *SA Orthopaedic Journal* 2013; 12 (4): 38-40

Kigera JWM, Gakuu LN. Incidence of early post operative surgical site infection after primary total hip arthroplasty in the African setting. *EAJ.* 2013; 7; 8-10

Saidi H, Oduor J. Trauma deaths outside the hospital: uncovering the typology in a Kenyan capital. *J Frensic Leg Med* 2013; 20(6): 570-4

Saidi H, Mutiso B. Injury outcomes in elderly patients admitted at an urban African hospital, *Surgical Science* 2013; doi.org/10.4236/ss.2013.46057

Mohammedali S, Mutiso SK, Orok , Saidi H. Experience with treatment of clavicle fractures at an African tertiary referral hospital. *EAJ* 2013; 7: 27-31.

6.2 School of Dental Sciences

The School of Dental Sciences (SDS) started from a humble beginning in 1974 as a Department (The Department of Dental Surgery) in the then Faculty of Medicine. The school has four Departments namely: Oral/Maxillofacial Surgery/ Oral Medicine/Pathology and Oral/Maxillofacial Radiology; Conservative and Prosthetic Dentistry; Paediatric Dentistry and Orthodontics; Periodontology/Community & Preventive Dentistry.

PROGRAMMES OFFERED

In 2013, the School offered the Bachelor of Dental Surgery (BDS) degree course, and Master of Dental Surgery courses with specializations in Paediatric Dentistry, Oral Maxillofacial Surgery, Periodontology/ Periodontics , and Prosthodontics

ENROLLMENT

In 2013, the School enrolled the following numbers:

Undergraduates	210
Masters	17
PhD	4

INTERNATIONAL STUDENT COMPONENT

In 2013, the School had four international students drawn from Zimbabwe, South Sudan and Tanzania

INTERNATIONAL LINKS AND COLLABORATION

In 2013, the School maintained links with the following organizations: Colgate/Palmolive, Glaxosmithkline Limited, Kenya Association of Paediatric Dentists(KAPD), Kenya Smiles, Wrigley's Foundation, Daisy Eye Cancer: The Daisy Eye Cancer (retinoblastoma project, and Eastern African Association of Oral & Maxillofacial Surgeons (EAAOMS)

PUBLICATIONS

B.K. Kisumbi, L.W. Gathece, L.N. Loyio, J.G. Wamai. Dental Amalgam Waste Management. International Dental Journal 2013, 63 (Suppl. 1): 297 -378.

Hescot P, China E, Bourgeois D, Maina S, Monteiro da Silva O, Jean Luc E, Simpson C, Horn V. The FDI African Strategy for Oral Health: addressing the specific needs of the continent. Inter. Dent. J.2013; 63: 113–120.

F. Butt, Guthua SW, Edalia B; Transoral Retrieaval of a Displaced Mandibular Tooth in the Parapharyngeal Space: A Patient with Clinical Unusual Findings. A Case Report. Anatomy Journal of Africa. 2013;2 (2) 123-127.

STAFF

In 2013, the School had the following staff complement:

Professor	4
Associate Professor	6
Senior Lecture	12
Lecturer	14
Tutorial Fellow	13
Chief Technologist	1
Senior Technologist	2

GRADUANDS

In 2013, the School graduated the following numbers:

Bachelor of Dental Surgery	32
Master of Dental Surgery	5
Doctor of Philosophy in Periodontology	1

PAPERS PRESENTED

W.A. Odhiambo presented a paper titled "Pilot study on the use of Internet Social Network site as a vehicle for Multicenter Injury Research" on 19th to 21st June, 2013 at The 2nd International Scientific Conference by College of Health Sciences, University of Nairobi and Kenyatta National Hospital.

W.A. Odhiambo Poster Presentation "The Kigali Boy with a Massive Tongue but No Respiratory Distress" on 19th to 21st June, 2013 at The 2nd International Scientific Conference by College of Health Sciences, University of Nairobi and Kenyatta National Hospital.

E. Kihara presented a Poster Presentation "Who owns the Maxillary Sinus? Incidental findings in Cone-Beam CT scans of the Maxillary Sinus" on 19th to 21st June, 2013 at The 2nd International Scientific Conference by College of Health Sciences, University of Nairobi and Kenyatta National Hospital.

J.F. Onyango presented a paper titled "Surgical approaches to the Temporal Mandibular Joint" in Maxillofacial Skills Course involving lectures and cadaveric sessions held at Nairobi Surgical Skills Center 27th to 28th July, 2013.

S.W. Guthua presented a paper titled "The approach to surgical management of parotid glands (Anatomy and Surgical approach) in Maxillofacial Skills Course involving lectures and cadaveric sessions held at Nairobi Surgical Skills Center 27th to 28th July, 2013.

T.J. Ochola presented a paper titled "Imaging of Salivary Gland" in Maxillofacial Skills Course involving lectures and cadaveric sessions held at Nairobi Surgical Skills Center 27th to 28th July, 2013.

T. Osundwa presented a paper titled "Surgical approach to the sub-mandibular region" in Maxillofacial Skills Course involving lectures and cadaveric sessions held at Nairobi Surgical Skills Center 27th to 28th July, 2013.

B.K.Kisumbi, L. W. Gathece, Lucina Nyanjama Loyio, Jane Gachambi Wamai. Dental Amalgam Waste Management by dentists in East Africa. Poster presentation at the FDI 2013 Istanbul Annual World Dental Congress 31st August 2013. Istanbul, Turkey.

S. Maina. Reaching out to children with Oral Health Education and Intervention –Partial Results. Poster presentation at the FDI 2013 Istanbul Annual World Dental Congress 29th August 2013. Istanbul, Turkey.

B.K. Kisumbi, L.W. Gathece, L.N. Loyio, J.G. Wamai. Use and accessibility of restorative materials to dentists in East Africa. 18/10/2013. 31st Kenya Dental Association Conference and Exhibition, Mombasa Continental Hotel. Mombasa, Kenya

B.K Kisumbi. Current set up in dental clinics and local dental amalgam waste management systems in Kenya. East Africa Dental amalgam phase-down . Results dissemination workshop. Muhimbili University of Health and allied 5th November 2013.

B.K Kisumbi. Review of results, analysis, conclusion of the EADAP waste practice and trade survey and future recommendations. East Africa Dental amalgam phase-down . Results dissemination workshop. Muhimbili University of Health and allied 5th November 2013.

B.K Kisumbi. EADAP – Waste management practices and trade of restoratives validation Survey in Kenya. East Africa Dental amalgam phase-down . Results dissemination workshop. Muhimbili University of Health and allied 5th November 2013.

B.K Kisumbi. Dental amalgam waste management practice and alternative filling materials. - Stakeholders workshop for the East Africa Dental Amalgam Phase-down Project. 22nd October 2013. Kenya Institute of Education, Nairobi.

B.K Kisumbi. Best waste Management Practice of Dental Amalgam and alternative materials Lecture and group work facilitation. 1st November 2013. Africa Dental Amalgam Phase-down Project Oral health workers Training workshop at School of Dental Sciences, University of Nairobi.

B.K Kisumbi. The global phase-down of Dental amalgam and Dentists role in Best Management Practice: Continuous Professional Development KDA: Monday, 14th October 2013. School of Dentistry, Moi University. Eldoret.

B.K Kisumbi. The global phase-down of Dental amalgam and Dentists role in Best Management Practice: Continuous Professional Development KDA: Thursday, 25th April 2013. Panafrican Hotel, Nairobi

Dienya T. Complications of Dental implants and their management 19 October, 31st Kenya Dental Association Conference and Exhibition, Mombasa Continental Hotel, Mombasa, Kenya

Kassim B.A. Prosthodontic treatment in children. CPD lecture to Kenya Dental Association of Paediatric Dentists. Gertrudes Children Hospital. 27th March, 2013.

T. Dienya and A.Malit. Attitude and awareness of Dental Implants among dentists in Kenya. Presented to implantology congress in South Africa.

W.A. Odhiambo Poster Presentation "The Kigali Boy with a Massive Tongue but No Respiratory Distress" on 19th to 21st June, 2013 at The 2nd International Scientific Conference by College of Health Sciences, University of Nairobi and Kenyatta National Hospital.

E. Kihara presented a Poster Presentation "Who owns the Maxillary Sinus? Incidental findings in Cone-Beam CT scans of the Maxillary Sinus" on 19th to 21st June, 2013 at The 2nd International Scientific Conference by College of Health Sciences, University of Nairobi and Kenyatta National Hospital.

6.3 School of Nursing Sciences

The School of Nursing Sciences was established as a School in January 2006 to offer training of nurses.

PROGRAMMES OFFERED

In 2013, the School offered two programmes namely:

Bachelor of Science in Nursing (BSc.N) and Master of Science in Nursing (MSc.N). In addition the School launched a blended BSc.N e-Learning programme, in partnership with AMREF, targeted towards upgrading of health workers with a Diploma in Nursing.

ENROLLMENT

In 2013, the School enrolled the following numbers

Bachelor of Nursing in Nursing (BSc.N) - (Direct entry)	352
Bachelor of Nursing in Nursing upgrading- (Upgrading)	41
Bachelor of Nursing in Nursing (BSc.N) ODL	150
Master of Science in Nursing (MSc. Nursing)	40
Ph.D in Nursing	6

INTERNATIONAL STUDENTS

In 2013, the School had an international student component of four.

GRADUANDS

In 2013, the School graduated the following numbers:

BSc. Nursing	85
MSc. Nursing	23
Ph.D in Nursing	1

STAFF

In 2013, the School had the following staff component:

Professor	1
Associate Professor	1
Senior Lecturer	2
Lecturer	15

RESEARCH

In 2013, staff engaged in research on: 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

In 2013, the School maintained links with the following organizations: Salford University, Africa Medical Research Foundation (AMREF), Boston College of Nursing, and University of Manchester.

PUBLICATIONS

S. Wakasiaka; Health Care Providers Perceptions of Intravaginal Rings for HIV prevention in Nairobi Kenya, Africa Journal of Midwifery and womens' Health – July ,Sept 2013 vol 7 No 3.

Omoni G. L. (2013). Setting a midwifery research agenda: The Lugina Africa Midwives Research Network. African Journal of Midwifery and Women's Health 7(3): 110-111 (Jul 2013)

Kimani S, Sinei K, Bukachi F, Tshala-Katumbay D, Maitai C. Memory deficits associated with sublethal cyanide poisoning relative to cyanate toxicity in rodents. *Metabolic Brain Disease*. 2013 Dec 3. Doi:10.1007/s11011-013-9459-2 ;PMID: 24293006

S.Kimani, V.Moterroso, M. Lasarev, S. Kipruto, F. Bukachi, C. Maitai, L. David and D.Tshala-Katumbay (2013). Carbamoylation correlates of cyanate neuropathy and cyanide poisoning: relevance to the biomarkers of cassava cyanogenesis and motor system toxicity. *SpringerPlus*, 2013; 2:647 doi:10.1186/2193-1801-2-647.

V.Mundan, M. Muiva, S.Kimani (2013). Physiological, Behavioral, and Dietary Characteristics Associated with Hypertension among Kenyan Defense Forces. *ISRN Preventive Medicine*. Vol. 2013 (2013), Article ID 740143. doi.org/10.5402/2013/740143.

J. Kariuki; E.M. Stuart-Short; S.Kimani; J.Muchira; J.Demita; H. Milton; M.Kamau; V. Mutuma (2013). Awareness, Treatment, and Control of Hypertension in Kenya. *Journal of Cardiovascular Nursing*: July/August 2013 - Volume 28 - Issue 4 - p 299–314. doi: 10.1097/JCN.0b013e318295654b

V.Mundan, M.Muiva, S.Kimani. Cardiovascular Risk Factors among Kenya Defence Forces Personnel at a Medical Clinic. *Journal of Cardiovascular Nursing*: July/August 2013 - Volume 28 - Issue 4 - p 299–314 doi: 10.1097/JCN.0b013e318295654b.

6.4 School of Pharmacy

The School of Pharmacy started as a Department of Pharmacy in the Faculty of Medicine in 1974 and attained a Faculty status in July 1995. 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 2013, 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 2013, the School enrolled the following numbers:

Postgraduate	78
Undergraduate	344

INTERNATIONAL STUDENTS

In 2013, the School had seven international students drawn from Uganda, Tanzania, Rwanda, Ivory Coast and Cameroon.

INTERNATIONAL LINKS AND COLLABORATIONS

In 2013, the School maintained its links with the following organizations:

Tianjin University of Traditional Chinese Medicine and Aibst of Zimbabwe, EDULINK MEDISHARE Project, Katholieke Universiteit Leuven, Belgium, Mercer University, Kansas University, University of Cape Town, South Africa (through GIBEX project), Activity Bio-prospecting, African Institute of Biomedical Sciences and Technology, University of Maryland, University of Washington Seattle, University of Cape Town, Department of Chemistry –

In addition, the School maintained links with industry on drug analysis and good manufacturing practices including: Laboratory and Allied Ltd, Glaxosmithkline Ltd, Pharmaceutical Manufacturing Company, Reckit Benckiser Ltd., Pfizer Laboratories, Vetcare (K) Ltd., and Ally Pharma Options Out Ltd.

STAFF

In 2013, the School had the following staff component:

Professor	5
Associate Professor	3
Senior Lecturer	8
Lecturer	15
Tutorial Fellows	10
Principal Technologist	3
Chief Technologist	2
Senior Technologist	5

GRADUANDS

In 2013, the School graduated the following numbers:

Undergraduates	82
Masters	15
PhD	3

6.5 School of Public Health

COURSES OFFERED

In 2013, the School offered the following programmes:

Master of Public Health (MPH)

Masters of Science in Health Systems Management (MSc.HSM))

ENROLMENT

In 2013, the School enrolled the following numbers:

Masters in Public Health (MPH) 97

Master of Science in Health Systems Management (Msc.HSM) 6

International student component

In 2013, the School had an international student complement of nine students drawn from Tanzania, Benin, Somali, Ethiopia, S.Sudan, Sierra Leone, and Nigeria.

STAFF

In 2013, the School had the following staff complement:

Professor	1
Associate Professor	4
Senior Lecturer	3
Lecturer	8
Tutorial Fellow	1

GRADUANDS

In 2013, the School graduated the following numbers:

Masters in Public Health	20
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INTERNATIONAL LINKS AND COLLABORATIONS

In 2013, the School maintained links with the following organisations: the Centre for Global Public Health, University of Manitoba, NASCOP, NACC and the World Bank, Regional AIDS Training Network, USAID, division of nutrition, Cornell University, the Global Alliance for Nutrition, One Health Central Eastern Africa (OHCEA), University of Kinshasa, University of Lubumbashi Jimma University College of Health and Medical Sciences, Mekelle University, National University of Rwanda, Umutara Polytechnic, Muhimbili University, Sokoine University of Agriculture, Makerere University, University of Minnesota, USA, Tufts University, Boston, USA

PUBLICATIONS

F. Thuita: Influence of access to Microfinance Credit by Women Household Food Consumption Patterns in an Urban Low Income Steeing in Nairobi, Kenya. European International Journal of Science and Technology ISSN: 2304 Vol.2, No. 3 April 2013

J.Olenja: Sexual reproductive health service provision to young people in Kenya; Health service providers' experiences', BMC Health Services Research 2013, 13:476. <http://www.biomedcentral.com/1472-6963/13/476>.

W. Ayieko & L. Nyabola: Field efficacy and acceptability of PermaNet 3.0 and OlysetNet in Kinshasa, Democratic Republic of the Congo'. J. Vector Borne Dis 50, September 2013, pp.206-214.

6.6 University of Nairobi Institute of Tropical and Infectious Diseases (UNITID)

This is the eleventh year since The University of Nairobi Institute of Tropical and Infectious Diseases (UNITID) was established in 2003. The Institute was established as a training and biomedical research centre under the College of Health Sciences of the University of Nairobi. The institute is a virtual institute drawing its research, academic and administrative staff from the existing University of Nairobi staff structure and other research and training institutions both locally and internationally.

PROGRAMMES OFFERED

There are five (5) programmes offered at UNITID namely: Postgraduate Diploma in Research Methodology (PGD-RM), Master of Science in Tropical and Infectious Diseases (MSc. TID), Master of Science in Medical Statistics (MSc. MedStat), UNITID Fellowship and PhDs. The course duration and students enrolled are as follows:

Research Methodology	6
MSc. Tropical and Infectious Diseases	15
MSc. Medical Statistics	15
PhDs	7
Total No. of students	43

INTERNATIONAL STUDENT COMPONENT

There is currently one international student in the 2nd year (MSc TID). The rest of the students are Kenyans

RESEARCH ACTIVITIES UNDERTAKEN

- i.) The following research activities took place or continued in 2012/2013 academic year:
- ii.) Alleviating Childhood Malnutrition by Improved Utilization of Traditional Foods (WINFOOD)
- iii.) Treatment of Childhood Under Nutrition: Development of and Access to Improved Foods (TREATFOOD)
- iv.) 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.
- v.) A clinical trial agreement on phase III open label non comparative study to evaluate parasitological clearance rates and pharmacokinetics of Azithromycin and Chloroquin following administration of a fixed dose combination of Azithromycin and Chloroquin (AZCQ) in asymptomatic pregnant women with plasmodium falciparum parasitemia in sub-Saharan Africa.
- vi.) Harnessing mobile phone usage for HIV and horizontal health systems improvement: PMTCT.

- vii.) A Double Blind Randomized trial of monthly treatment with tropical metronidazole and miconazole co-formulated vaginal suppositories versus placebo for preventing vaginal infections in HIV seronegative women.
- viii.) Increasing Access to quality comprehensive HIV prevention services for most at risk populations in Nairobi County.
- ix.) University of Nairobi Fellowship Programme
- x.) Pregnancy & HIV Risk Infections (HAPI Study)
- xi.) Gender-Specific Combination HIV Prevention for Youth in High – Burden Settings (MP3)
- xii.) International Extramural Associates Research Development Award (IEARDA)
- xiii.) International AIDS Research and Training Program-Ganjoni

INTERNATIONAL LINKS AND COLLABORATIONS

- The University of Nairobi/ University of Manitoba, Canada
- The University of Nairobi/ University of Washington, Seattle
- The University of Nairobi/ Centre for Disease Control & Prevention (CDC)
- The University of Nairobi/ Pfizer Laboratories, South Africa
- The University of Nairobi/University of West Virginia, USA
- The University of Nairobi/Sunny Upstate University, USA

LOCAL

- Nairobi City Council/ Public Health Department
- Pumwani Maternity Hospital
- Tigoni District Hospital
- Kenya Medical Research Institute (KEMRI)
- Kenyatta National Hospital
- Siaya District Hospital

NO. OF STAFF AND THEIR DESIGNATION

Director	1
Deputy Director	1
Admin. Assistant	1
Lab technologists	2
Secretary	1
Driver	1
Cleaner/Messenger	2
Total	9

2012/2013 GRADUANDS IN THE INSTITUTE

MSc. Topical and Infectious Diseases	6
MSc. Medical Statistics	4
Postgraduate Diploma in Research Methodology	2

PUBLICATIONS FOR THE YEAR 2012/2013

Antimicrobial Susceptibility patterns of Enterobacteriaceae isolated from urine samples at The Kenyatta National Hospital Microbiology laboratory by Dr. Simon Kibuti Njiru

Appraisal of HIV post exposure prophylaxis Program amongst sexual assault victims at Kenyatta National Hospital by Dr. Eric Munene Muriuki

Evaluation of the PMTCT Program at Riruta Health Centre, Nairobi, Kenya by Dr. Virginia W. Karanja

Knowledge, attitudes and practices on tuberculosis (TB) management among private health care workers in Kawangware, Nairobi, Kenya by Dr. Barbara Wanjiku Mambo

Seroprevalence and risk factors of Hepatitis B among pregnant women in Kigali, Rwanda by Dr. Mochama Monica Nyamusi

Evaluation of GP5+/6+ and MY09/11 consensus primers for HPV DNA testing by real time PCR – Mombasa, Kenya by Dr. Mwangi Lucy Wangari

Use of CART and logistic regression analysis to identify key determinants of pregnancy wastage by Dr. Austin Luki Mueke

Modeling survival in HIV/AIDS treatment: COX proportional hazard versus accelerated failure time models by Dr. Augustine Gatimu Njuguna

Patient factors influencing satisfaction with quality of health care in Kenya: A comparison of ordered Logit and ordered Probit regression models by Mr. Chepkutto W. K. Yegon

Principal component analysis and linear discriminant analysis in gene expression data by Dr. Edwin Munene Kagereki

Factors associated with optimal ART adherence and better clinical outcomes in patients enrolled at Casino HIV Clinic Nairobi by Dr. Tom Marwa Machera

Improved access to skilled delivery using community midwives in Kilifi District by Dr. Faiza Ahed Nassir

CONSULTANCIES

Malaria Case Management Training Consultancy in Central Province

A Phase 3 Open Label, Randomised Comparative study to evaluate Azithromycin plus Chloroquine and sulfadoxine plus pyrimethanine combinations for intermittent preventive treatment of falciparum malaria infections in pregnant women in Africa.

An 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 Chloroquine (AZCQ) in asymptomatic pregnant women in Plasmodium falciparum parasitemia in sub-saharan Africa.

CENTRE FOR HIV PREVENTION AND RESEARCH(CHIVPR)

The University of Nairobi- Centre for HIV Prevention and Research (CHIVPR) at The College of Health Sciences was established in 2006 as a successor to the defunct Strengthening STD/HIV/AIDS Control Project in Kenya (STD Project). The Centre continues to carry out training and community intervention and research by building capacity for rigorous health, social and behavioral science research on HIV/AIDS.

STAFF

In 2013, the Centre had the following staff complement

Director	1
Program Coordinator	2
Project Manager	1
Finance Administrator	1
Project Administrator	1

INTERNATIONAL LINKS AND COLLABORATIONS

The centre had the following collaborators: CDC, NACC, NASCO, County Governments, Central government Ministries for Devolution, Health, Education, Youth and Gender, Office of the President and Interior) University of De -Paul, University of New South Wales,

PUBLICATIONS

Benefits and constraints of intimate partnerships for HIV positive sex workers in Kibera, Kenya. Benoit C, Roth E, Hallgrimsdottir H, Jansson M, Ngugi E, Sharpe K. *Int J Equity Health*. 2013 Sep 3;12:76. doi: 10.1186/1475-9276-12-76

HLA class I associations with rates of HIV-1 seroconversion and disease progression in the Pumwani Sex Worker Cohort. Peterson TA, Kimani J, Wachih C, Bielawny T, Mendoza L, Thavaneswaran S, Narayansingh MJ, Kariri T, Liang B, Ball TB, Ngugi EN, Plummer FA, Luo M *Tissue Antigens*. 2013 Feb;81(2):93-107. doi: 10.1111/tan.12051.

Anal Sex, Vaginal Sex and HIV Risk Among Sex Worker in Papua New Guinea. Kelly –HankuA, Rawstorne P, Kupul M, Worth H, Ship P, Man WY, *AIDS Behav* 2013 Nov 22

Levels of advertised unprotected vaginal and oral sex by independent indoor female sex workers in West Yorkshire, UK Eccles C, Clarke J. *Sex Transm Infect* 2013 Sep 27

Typology of older female sex workers and sexual risk for HIV infection in China: a qualitative study. Hao C, Clarke J. *Sex Transm Infect* 2013 Sep 02

Female Sex Workers in Three Cities in Russia: HIV Prevalence, Risk Factors and Experience with Targeted HIV prevention. Decker MR, Wirtz AL, Moguilnyi V, Peryshkina A, ostrovskaya M, Nikita M, Kuznetzova J, Beyrer C. *AIDS Behav* 2013 Aug 09

Client demands for unsafe sex: the socio-economic risk environment for HIV among street and off street sex workers Deering KN, Lyons T, Feng CX, Nosyk B, Strathdee SA, Montaner JS, Shannon K, *J Acquired Immune Defic Syndr* 2013 Apr 22

Vaginal practices among at high risk of HIV infection in Uganda and Tanzania: recorded behavior from a daily pictorial diary Francic SC, Baisley K, Lees SS, Andrew B, Watson-Jones D, Kapiga S, Grosskurth H, Hayes RJ. *PLoS ONE* 2013 38(3):e59085 PMID:23555618 DOI:10.1371/journal.pone.0059085

Global estimates of syphilis in pregnancy and associated adverse outcomes: analysis of multinational antenatal surveillance data. Nweman L, Kamb M, Hawkes S, Gomez G, Say L, Seuc A, Broutet N. *PLoS Med* 2013; 10(2):e1001396 PMID:23685598 DOI:10.1371/journal.pmed. 1001396

Decline in the prevalence of HIV and sexually transmitted infections among female sex workers in Benin over 15 years of targeted interventions Behanzin L, Diabate S, Minani I, Boily MC, Anagonou S, Zannou DM, Lowndes CM, Alary M. *J Acquir Immune Defic Syndr* 2013 Jan 18 PMID: 23337368 DOI: 10.1097/QAI.0b013e318286b9d4

PRESENTATIONS:

Comprehensive HIV and AIDS Prevention and Care program for MARPS in Central and Eastern Province (Univ. Nairobi) Annual Review Meeting 2013 University Of Nairobi STD/AIDS Collaborative Group Mayfair Court Southern Sun, Nairobi

Integrated model of implementation. Ngugi E1, Nderitu M1, Pèrè M1, Kingori W1, Mwaura J1, Muguna A1, Maina1, Kageni L1

Determinants and outcomes of HIV disclosure by HIV positive female sex workers to their sex partners. Nderitu M1, Ngugi E1, Pèrè M1, Kingori W1, Mwaura J1, Muguna A1, Maina1, Kageni L1, Patrick E1, Mohammed N1, Kirathe P1

Prevalence of STIs among MARPs at the Thika Comprehensive Care Clinic. Mwaura J 1, Ngugi E1, Nderitu M1, Ndunge J1, Muiga M1, Majau P1,

Impact of the comprehensive prevention and support program on HIV transmission among MARPs. Kageni L1, Ngugi E 1, Nderitu M1, Pere M1, King'ori W1, Gisore A1, Mwaura J1, Muguna A1, Maina1, Mutegi A1, Mureithi M1 .

The role of microenterprise in behaviour modification among MARPs. Muguna A1, Ngugi E1, Nderitu M1, Pèrè M1, Kingori W1, Mwaura J1, Maina1, Kageni L1

7.1 Centre for Advanced Studies in Environmental Law and Policy

PUBLICATIONS

Oguge, N.O. 2013. *Crocidura fischeri* Fischer's Shrew; pp 75-76 in Happold, M. & Happold, D.C.D. (eds) 2013. *The Mammals of Africa Volume IV*. Bloomsbury Publishing, London.

..... *Crocidura jacksoni* Jackson's Shrew; pp 90-91 in Happold, M. & Happold, D.C.D. (eds) 2013. *The Mammals of Africa Volume IV*. Bloomsbury Publishing, London.

..... *Crocidura macarthuri* MacArthur's Shrew; pp 101 in Happold, M. & Happold, D.C.D. (eds) 2013. *The Mammals of Africa Volume IV*. Bloomsbury Publishing, London.

..... *Crocidura turba* Turbo Shrew; pp 139-140 in Happold, M. & Happold, D.C.D. (eds) 2013. *The Mammals of Africa Volume IV*. Bloomsbury Publishing, London.

..... & Hutterer, R. 2013. *Sancus aequatorius* Taita Dwarf Shrew; pp 172-173 in Happold, M. & Happold, D.C.D. (eds) 2013. *The Mammals of Africa Volume IV*. Bloomsbury Publishing, London.

Odote, C, Musembi, C and Kamande, M., *Ours by Right: Law, Politics and Realities of Community Property in Kenya* (Strathmore University Press, Nairobi, 2013).

..... "The Dawn of Uhuru? Implications of Constitutional Recognition of Communal Land Rights in Pastoral Areas of Kenya" 17(1) *Nomadic Peoples Journal* 87-105(2013).

..... "Kenya: The New Environment and Land Court," 2013(1) *IUCN Academy of Environmental Law, E-Journal*.

..... "Public Interest Litigation and Climate Change: An Example from Kenya," in Ruppel, C.O, Roschman, C and Ruppel-Schlichting, K., *Climate Change: International Law and Global Governance; Volume 1 (Legal Responsibility and Global Responsibility)*, (Nomos Publishers, Baden-Baden, Germany, 2013) Pp. 805-830.

Khoshroo, A. Mulwa, R., Emrouznejad, A. and Arabi, B. (2013): A non-parametric Data Envelopment Analysis approach for improving energy efficiency of grape production, *Energy*, 63: 189-194.

Mulwa, R. and Emrouznejad A. (2013): Measuring Productive Efficiency Using Nerlovian Profit Efficiency Indicator and Meta-Frontier Analysis. *Operations Research: International Journal*, 13(2), 271-287.

Mulwa, R., Wafula, D., Karembu, M. and Waithaka M. (2013): Estimating the Potential Economic Benefits of Adopting Bt Cotton in Selected COMESA Countries. *AgBioForum*, 16(1), 14-26.

Muigua, K "Heralding A New Dawn: Achieving Justice Through Effective Application of Alternative Dispute Resolution Mechanisms (ADR) in Kenya", *Chartered Institute of Arbitrators (Kenya), Alternative Dispute Resolution Volume 1 No 1, (2013), page 43-78*

Kibugi R, The Constitutional Basis of Public Participation in Environmental Governance: Framing Equitable Opportunities at National and County Government Levels in Kenya in Hassane Cisse; N.R Madhava Menon; Marie-Claire Cordonier Segger & Vincent O. Nmehielle (eds) "Fostering Development through Opportunity, Inclusion and Equity," World Bank Legal Review No. 5, 2013

.....Mainstreaming Sustainable Development into National Climate Change Responses: Assessing the Legal Options to Reinforce Equity" in Climate Change: International Law and Global Governance in OC Ruppel / C Roschmann / K Ruppel-Schlichting (Eds) Nomos Publishers, Germany, 2013

....."Mainstreaming climate change into public policy functions: Legal options to reinforce sustainable development of Kenya" FAMU Law Review, Spring 2013

.....An Assessment of the Legal and Political Realities in a new Dawn of Community Property Rights in Kenya Nomadic Peoples Journal Volume 17 Number 1 2013

RESEARCH

Nicholas Oguge, Collins Ouma, Maurice Omolo, Muhamed Swaleh, Caleb mireri & Faith Odongo. Developing biomass pyrolysis stoves for sustainable bioenergy use by rural households and small business enterprises in Kenya. KES 5,000,000. (National Council of Science and Technology, Kenya).

Anyango, S. Investigator Designs of improved well testing facility with low noise generation and a commercial scale heat exchanger using secondary steam Ministry Of Higher Education Science And Technology National Council for Science and Technology Science, Technology and Innovations (St&I) Grant Thematic area: Engineering Disciplines and Renewable Energy

Odote, C Joint Lead Researcher, IDRC Funded Project on "Improving Access to Justice and Basic Services in Informal Settlements of Nairobi."

.....Lead Researcher, ILEG Project on "Analysis of Legal and Policy Framework for Oil and Gas in Kenya."

Mulwa, J. Enhancing Adoption of harmonized standards in Eastern and Central Africa

.....Agricultural Model Intercomparison and Improvement Project (AgMIP)

.....Performance of soil conservation practices as climate change adaptation strategies in Kenya and Uganda

Kibugi, R Legal Frameworks for Adaptation to Climate Change

Research Project: Specialist Group on Climate Change Adaptation – ASEAN and the World. Funded by Asia Pacific Center for Environmental Law (APCEL), based at the Faculty of Law at the National University of Singapore.

J.F Agwata Water resource use conflicts in the Tana basin of Kenya, drought management policy and institutional mechanisms in Kajiado County, water accessibility, use and conservation in Kiambu County, policy Initiatives for E-waste Management in Kenya.

PAPERS PRESENTED

Anyango, S. Natural Resource Governance in Kenya: The Assessment of the Policy, Legal and Institutional Framework for the Fisheries Sub Sector. 8th The Western Indian Ocean Marine Science Association (WIOMSA) Scientific Symposium organized by WIOMSA and the Universidade Eduardo Mondlane (UEM) and held in Maputo, Mozambique from 28th October – 2 November 2013.

.....Overview of Water Supply, and Sanitation in Kisumu County: public perception and expectations based on a participatory service delivery Assessment. 1st Kisumu County Water Conference. "Positioning Kisumu County to

Provide Sustainable Access to Safe Water". Held in Kisumu September 2013

..... The challenges and opportunities facing exploration and utilization of Hydrocarbons (oil and coal) resources in Kenya. 6th Ecological Society for Eastern Africa Scientific and Policy Conference Date: 28 – 29 August, 2013 Natural Capital, Resilience and Sustainable Development in Eastern Africa.

Odote, C. "Constitutional context for community involvement in forest governance: Lessons from Kenyan Coastal Forests", Presentation at the 8th WIOMSA Scientific Symposium, Maputo Mozambique, 28th October, 2013.

.....How Did Key Stakeholders Behave: An Assessment of the Executive, Legislature and Political Parties' Role in the 2013 Elections" Presentation to UoN RRI Symposium on Raila Odinga & Others Versus IEBC Supreme Court Judgment, 13th November, 2013

Muigua, K "Heralding a New Dawn: Achieving Justice through effective

Application of Alternative Dispute Resolution Mechanisms (ADR) in Kenya", The Chartered Institute of Arbitrators, Kenya Annual Regional Conference 2013 at 25-26 July, 2013, Southern Sun, Mayfair

....."Making East Africa a Hub for International Commercial Arbitration:

A Critical Examination of the State of the Legal and Institutional

Framework Governing Arbitration in Kenya", arbitration workshop

for EAC region 24th- 25th May, 2013.

Kibugi, R. "Towards Governance and Legal Frameworks for Sustainable Landscapes: Working through functional institutions, social learning and investment in population." A paper presented a respondent to the Key note presentation by Prof Benjamin Cashore (Yale University) on Governance and Legal Frameworks for Sustainable Landscapes during the Global Landscapes Forum, at the Faculty of Law, University of Warsaw, Poland, on 16 November 2013

....."Regulatory Pathways for Low-Carbon Investment in Sustainable Land Use in Sub-Saharan Africa." This was a presentation made during the workshop on Rule of Law Responses to Climate Change and Sustainable Rural Development

organized by the International Development Law Organization (IDLO) and the Democratic Republic of Congo (DRC) during the 19th Conference of Parties (CoP) of the United Nations Framework Convention on Climate Change (UNFCCC) on 15 November 2013 in Warsaw, Poland.

....."Law and Institutions: Inquiry into Legal Interventions for Mainstreaming Climate Change Resilience and Disaster Risk Reduction in Kenya." A Paper presented during the 11th IUCN Academy of Environmental Law Annual Colloquium at the University of Waikato Faculty of Law, New Zealand, 24-28 June 2013

.....Presentation on "Assessment of Legal Frameworks for Low Carbon Investments in Sustainable Land Use in Tanzania," A Workshop organized by the Centre for International Forestry Research (CIFOR), Pestana Rovuma Hotel, Maputo, Mozambique, 10 May 2013

.....Presentation on "Assessment of Legal Frameworks for Low Carbon Investments in Sustainable Land Use in Mozambique," A Workshop organized by the Centre for International Forestry Research (CIFOR), Protea Hotel Dar es Salaam, Tanzania, 17 April 2013

....."Fair Trade, Sustainable Economic Development and the Law" A Workshop organized by the International Development Law Organization (IDLO), Rome, Italy, 18-20 February 2013. Presented a paper on "Sustainable Development of Fair Trade in Kenya: Legal Opportunities."

7.2 Faculty of Arts

The Faculty of Arts is one of the largest faculties in the University. The Faculty has ten Departments of: Linguistics and Languages, Communication Skills, Literature, Geography and Environmental Studies, History and Archaeological Studies, Psychology, Sociology and Social Work, Political Science and Public Administration, Philosophy and Religious Studies and Kiswahili and one sub –department of French. Within the Faculty there are also the Confucius Institute and the Centre for Human Rights and Peace.

COURSES OFFERED

In 2013, the Faculty offered a large number of competitive, demand-driven programs ranging from diploma, bachelor, master, post-graduate diploma and Ph.D.

STAFF

In 2013, the Faculty had the following staff complement:

Professor	17
Associate Professor	31
Senior Lecturer	38
Lecturer	96
Assistant Lecturer	10
Tutorial Fellow	27
Visiting Lecturers	3
Graduate Assistant	1

ENROLMENT

In 2013, the faculty enrolled the following numbers:

Ph.D	80
Masters	1,200
Post Graduate Diploma	7
Bachelors	7,500
Diploma	500
Certificate	24

GRADUANDS

In 2013, the Faculty graduated the following numbers:

Ph.D	10
Masters	212
Post Graduate Diploma	15
Bachelors	1389
Diploma	148

INTERNATIONAL LINKS AND COLLABORATIONS

- African Studies Centre Netherlands
- Centre for Development and Environment, University of Berne
- Centre for Research in Arid and Semi-Arid Development (CETRAD)
- Centre for Sustainable Urban Development, Columbia University
- Department of Geography, McGill University
- Department of Geography, Miami University
- French National Centre for Scientific Research, University of Bordeaux
- Institute of French Research in Africa (IFRA) Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences Linkoping University
- Mitsubishi Corporation, Nairobi Liaison Office
- United Nations University (UNU)
- University of Jyvaskyla
- Ministry of Education
- Raoul Wallenberg Institute, Nairobi
- Chrips, Centre for Human Rights and Policy Studies Heritage Conservation and Human Rights (HCHR), University Of Nairobi.
- Norwegian Centre For Human Rights
- Universidade Pedagogica University of Maputo
- University of Washington, USA
- Catholic Organization for Relief and Development Aid (Cordaid)
- University of South Carolina Upstate
- National Intelligence Academy
- Kenya School of Government

RESEARCH

Development of African aviation	Prof. E.M. Irandu
Food planning and innovation for sustainable metropolitan regions (FOODMETRES) Nairobi case study	Dr. S.O. Owuor, Dr. D. Foeken, Dr. R. Simiyu & Ms. T. Mbatia
Integrated graduate education research traineeship (IGERT) project	Dr. A.O. Odingo
International tourism and eco-tourism	Prof. E.M. Irandu
Restructuring of railway transportation in East Africa	Prof. E.M. Irandu
Semi-arid areas in transition: livelihood, security, socio-ecological variability and the role of development interventions in East Africa	Prof. E.H.O. Ayiamba
Sustainable urban transport	Prof. E.M. Irandu
Thika superhighway improvement research project	Prof. E.M. Irandu
Urban national parks in emerging countries and cities (UNPEC)	Ms. T. Mbatia
Water resources assessment of the Lower Athi River basin	Dr. J.M. Nyangaga
Water resources availability for irrigation in Samburu County	Dr. J.M. Nyangaga
Water resources availability to supplement the existing supplies to the City of Nairobi	Dr. J.M. Nyangaga
Water sector reforms and interventions in urban Kenya (WAS RIP)	Dr. S.O. Owuor & Dr. D. Foeken
Baseline survey of the food security situation in Migori County	Prof. M. A. Achola
History of natural heritage conservation in Kenya	Dr. E. W. Wahome
Conservation of Mau Mau cultural heritage tourism in Kenya	Dr. E. W. Wahome
Archaeology and socio-economic development of local communities in the coast region (heritage conservation and human rights multi-disciplinary project)	Dr. G. Wafula
Research Director; "Voices from the cities: a comparative study on urbanization in Kenya and Korea", supported by the Academy of Korean Studies, Seoul. (USD 82000)	Prof. P. Wasamba
Research: "Bridging the divide: networking african and Korean researchers," supported by the Academy of Korean Studies, Seoul. (USD 63,000).	Prof. P. Wasamba
World Vision Somalia experience on working with partners: Commissioned by World Vision Humanitarian and Emergency Affairs	Dr. R.M. Ocharo

PUBLICATIONS

- Abass, A.M. and Mwaura, F. (2013), Remembering the drylands of Kenya: integrating the ASAL economy to the Kenya Vision 2030. In: M. Mungai and G. Gona (eds.), Remembering Kenya: Identity, Culture and Freedom, Vol.4. Nairobi: Twaweza Communications.
- Ayiemba, E.H.O. (2013), Marriage and fertility. In: National Council for Population and Development (NCPD), Kenya Population Situation Analysis. Nairobi: National Council of Population and Development, pp. 155-170.
- Benit-Gbaffou, C., Dubresson, A., Fourchard, L. Ginisty, K., Jaglin, S., Olukoju, A, Owuor, S. and J. Vivet (2013), Exploring the role of party politics in the governance of African cities. In: S. Baker and L. Fourchard (eds.), Politics and Policies: Governing Cities in Africa. Cape Town: HSRC Press, pp. 17-41
- Foeken, D., Chung, H.C., Mutune, T.N. and S.O. Owuor (2013), Urban water interventions and livelihoods in low-income neighbourhoods in Kisumu, Kenya. ASC Working Paper 112/2013. Leiden: African Studies Centre.
- Kamau, J.W. and Mwaura, F. (2013), Climate change adaptation and EIA studies in Kenya. International Journal of Climate Change Strategies and Management (IJCCSM) Vol (2): 152-165.
- Mutui, F.N., B. Cun-kuan, V. Onyango, V. Muhandiki & F. Mwaura (2013), The development and practice of Strategic Environmental Assessment (SEA) in Kenya. European Scientific Journal (October 2013 Edition) 19 (29): 165-185
- Mwaguni, S., Mungai, D. and E. Ayiemba (2013), Urbanization and groundwater pollution in Mombasa, Kenya: Do we have to transfer the problem due to construction of the Dongo-Kundu by-pass? Journal of Environment and Earth Science, Vol.3 (4): 98-111.
- Omoke, K.J. (2013), Livelihood bases, risks and adaptations among the older persons in Turkana and Lamu districts in Kenya. Journal of Social Sciences Research, Vol. 2 (9): 242-253.
- Owuor, S.O. (2013), Urbanization and internal migration. In: Kenya Population Situation Analysis. Nairobi: National Council of Population and Development, pp. 187-213.
- Wambua, B.N. (2013), The status of the effects of food insecurity on livelihood opportunities and options in semi-arid parts of Makueni District, Kenya. Asian Journal of Agriculture and Food Sciences, Vol. 1 (4): 172-179.
- Mutoro, H. and Wafula, G. (2013) The development of archaeology in Kenya since the early 1960s. In: MIZIZI: A collection of essays on Kenya's history. Nairobi: University of Nairobi Press, pp.49-62
- Achola. M.A. (2013) Maternal and child health in colonial Nairobi. In: MIZIZI: A collection of essays on Kenya's history'. pp.125-156
- Simiyu, V.G. (2013) Social differentiation in Kenya from 1963 to 2009. MIZIZI: A collection of essays on Kenya's history, pp. 229-241. Nairobi: University of Nairobi Press
- Wahome, E.W. (2013) Ceramic style and history: an inter-regional assessment. In Mizizi: A Collection of Essays on Kenya's History. Nairobi: University of Nairobi Press, pp.81-96
- Wahome, E.W. (2013) Loss of material heritage in Kenya. In: International Journal of Arts and Commerce 2(9):77-92
- Wahome E.W. Mugwima, B.N. and Nyachwaya W.N. (2013) Reflections on conservation of urban heritage attractions: The case of Nairobi 1898 to 1948. In: Global Built Environment Review, 8(3) 1-34.

- Wahome, E.W. and Gathungu, J. (2013) Brand personality and the evolution of destination Kenya during the colonial period. In: *Thought and Practice: Journal of Philosophical Association of Kenya*, Vol. 5 (1):91-119
- Wahome E.W. and Mugwima, B.N. 2013 Perceptions in a commons: A case of historic old town, Mombasa. In: *Journal of Inquiry in Design Pedagogy (JIDEP)*, Vol. 1 pp. 44-69
- Gona, G. (2013) He talked for us: Moi and structural adjustment programmes in Kenya. In *MIZIZI: A collection of essays on Kenya's history*. Nairobi: University of Nairobi Press, pp. 297-316
- George Gona, G. and Mungai, M. (2013) (Re) Membering Kenya: interrogating marginalization and governance, Nairobi, Twaweza Communications, vol. 2
- Mwiandi, M. (2013) The history of Jeanes School, Kabete, 1925-1939. In: *MIZIZI: A collection of essays on Kenya's history*. Nairobi: University of Nairobi Press, pp. 157-188.
- Ombongi, K. (2013) The politics of urban malaria control in Kenya: a management challenge. In *MIZIZI: A collection of essays on Kenya's history*. Nairobi: UONPS pp.103-124.
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- Misigo H. Christian mission, government and local council partnership in educational development. the case of western Kenya, 1911-1938. In: *International Journal of Arts and Commerce*
- Herbert Misigo, H. The friends church and development of a Christian commercial agricultural elite in western Kenya, 1902 – 1963'. *International Journal of Arts and Commerce*
- Nyanchoga, B. (2013) Protecting archaeological heritage in Kenya: A management challenge. In: *MIZIZI: A collection of essays on Kenya's history*. Nairobi: University of Nairobi Press, pp.97-102
- Gachihi, M. (2013) The changing faces of loyalism in Central Kenya. In: *MIZIZI: A collection of essays on Kenya's history*, Nairobi: University of Nairobi Press, pp.189-2004
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- Wafula, G. (2013) The local ceramic industry and socio-economic developments on the Kenya coast between 100 and 1600 AD: An ethno-archaeological approach. In *MIZIZI: A collection of essays on Kenya's history*, pp. 63-80. Nairobi: University of Nairobi Press
- Wafula, G. and Mutoro, H. (2013) The development of archaeology in Kenya since the early 1960s. In: *MIZIZI: A collection of essays on Kenya's history*, Nairobi: University of Nairobi Press, pp.49-62
- Odeny, G. (2013) The colonial roots of post-colonial Kenya's foreign policy behavior. In *MIZIZI: A collection of essays on Kenya's history*, pp. 215-228. Nairobi: University of Nairobi Press
- Mukhwana, A., (2013) Attitudinal factors as determinants of language of educational instruction in kenya: A Case Study of Nairobi. In: *Research on Humanities and Social Sciences*, Vol., 3 (14)
- Mukhwana. A., (2013) Kenyan versus Tanzanian Kiswahili: linguistic differences due to political history and ideology. In: *African Review of Arts, Social Sciences and Education* Vol 3 (1)

- Mukhwana Ayub et al, (2013) Desk graffiti cohesion strategies in the University of Nairobi Libraries. In: International Journal of Education and Research, Vol 1 (8)
- Mukhwana Ayub, A new language policy but old language practices: the case of Kenya after 2010 constitution in Journal of Innovative Research of Development, Vol 2 (9)
- Timammy, R. and Swaleh, A. (2013) Characterization and the construction of gender identity in John Habwe's Maumbile si Huja. In: International Journal of Education and Research Vol. 1 (9) (Online)
- Timammy, R. and Swaleh, A. (2013) A thematic analysis of Utendi wa Mwana Kupona: A Swahili/Islamic perspective. In: Journal of Education and Practice, Vol. 4 (28), pgs. 8 - 15 (Online)
- Mwangi, I. (2013) From oral narration to the publishing house: an examination of thematic development of Kiswahili short story. In: International Journal of Education and Research (IJER) Vol. 1 No. 9. (Online). <http://www.ijern.com/September-2013.php>
- Mwangi I. (2013) Cultural transfer from Europe and Asia to Africa: evidence from borrowed lexicon adapted into Kiswahili. in: International Journal of Education and Research (IJER) (Online) Vol.1 No. 8. pp 111-124. <http://www.ijern.com/August-2013.php>
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- Mwaniki, I. (2003) The teaching and learning of English pronunciation patterns and listening skills in Kenya. in: International Journal of Education and Research, Vol. 1 (8), pp. 179 – 190
- Mwaniki, I. (2013) The place of authoritative and plausible reconstruction in the interpretation and assessment of communicative English proficiency among secondary school leavers in Kenya. In: International Journal of Education and Research Vol. 1 No. 10, pp. 55 -70
- H. Schroder, H. (2013) The pragmatic routines that occur in clause chaining. in: Lodz Papers in Pragmatics Vol. 9, issue 25 – 44
- Kihara, P. and Schroder, H. (2013) A relevance – theoretical analysis of aspects of Mchongoano. In: The University of Nairobi Journal of Language and Linguistics, Vol. 2: 63-78
- Wasamba, P. (2013) Quest for ethnic tolerance in Kenya: the role of oral history". in: Journal of African affairs, vol. 33, 247-272
- Wasamba, P. (2013) Going beyond data collection in ethnography: options for bridging the gap between researchers and archivists. In: Journal of African Renaissance Studies, Vol. 7. No. 2, pp. 4-17. <http://dx.doi.org/10.1080/18186874.2013.774695>.
- Wasamba, P (2013) Tradition, borrowing and plagiarism: an examination of Joseph Conrad's Under Western Eyes and Ngugi wa Thiongo's A Grain of Wheat. In: African Affairs Journal, Vol. 34, Pp 95-126.

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Maweu J.M. (2013) The ethnic hate speech was networked: what social media political discussions reveal about the 2013 General Elections in Kenya. In: *Index.Comunicación Journal* Vol 3, No 2, pp. 37-52

Maweu, J.M. (2013) Media liberalization in Kenya: Who benefits what? In: Olatunji, Rotimi, Laninhun and Beatrice eds. *Dimensions of Advertising Theory and Practice in Africa*. Dakar: Amalion Publishing, pp. 123- 134 (online)

Maweu, J.M. (2013) A critical assessment of Odera Oruka's theory of punishment. in *thought and practice: A Journal of the Philosophical Association of Kenya (PAK)*, Vol.4 No.2, April 2013, pp.97-109 (<http://ajol.info/index.php/tp/index>)

Akaranga, S.I. et al (2013)), "Analysis of Socrates' Credo, "The unexamined life is not worth living in relation to learners who fail the Kenya Certificate of Secondary Education (KCSE) Examinations . In: *International Journal of Humanities and Social Science* Vol. 3 No. 21, pp. 157-162.

Akaranga S.I. and Ongong'a, J. (2013) The phenomenon of examination malpractice: an example of Nairobi and Kenyatta universities. In: *Journal of Education and Practice*, Vol.4 No.18 2013, pp.87-96.

Akaranga S.I. and Ongong'a, J. (2013) Work ethics for university lecturers: an example of Nairobi and Kenyatta Universities, In: *International Journal of Arts and Commerce*, Vol.2 No. 8, pp 8-22

Akaranga S.I. and Jude Ongong'a, J. (2013) African traditional cultural conundrums which make women prone to HIV/AIDS infections: a case of the Maasai of Kenya. In: *International Journal of Education and Research* Vol.1 No. 8, pp. 153-166.

Akaranga S.I. and Ongong'a, J. (2013) The dynamics of religiosity and spirituality in Kenyan public universities. In: *International Journal of Education and Research* Vol.1 No. 6, pp.63-80

Akaranga S.I. and Ongong'a, J. (2013) The phenomenon of religious switching among university students: the case of Nairobi and Kenyatta Universities, Kenya. In: *International Journal of Education and Research* Vol. 1 No. 5, May 2013, pp.241

Mugambi, J. N.K. (2013) the future of theological education in Africa and the challenges it faces: *Handbook of Theological Education in Africa*, Oxford: Regnum, 2013

Mugambi, J. N.K. (2013) Challenges for theological publishing of scholarly books in Africa: *Handbook of Theological Education in Africa*, Oxford: Regnum, 2013

Onfita, E. Mwenzwa, E. and Akuma, J.M. (Eds.) (2013) *Themes in contemporary community development in Africa: a multidisciplinary perspective*. Pau: Delizon International Publishers (ISBN 978-2-36523-070-4)

Kariuki J.G. (2013) The gender implications of men's shift from cash crop farming to dairy farming in Central Kenya. In: *International Journal of Social Sciences and Entrepreneurship (IJSSE)* Vol. 1 (5), pp. 631 – 646

Kariuki J.G. (2013) Feminization of poverty in Kenya. The case of Abagusii and Agikuyu women of Kenya. In: *International Journal of Social Sciences and Entrepreneurship (IJSSE)* Vol. 1 (5), pp. 372 – 383

Jonyo F. O. (2013) Perspectives of regional integration. In: *The East African Community Research Journal in Organizational Psychological and Educational Studies (RJOPES)*, Vol. 2, No. 4, 2013

Jonyo F. O., (2013) A review of the impact of massification on the quality of higher education in Kenya. In: Organizational Psychology and Educational Studies (RJOPES), Vol. 2, No.3., 2013

Jonyo F. O., (2013) Mitigating African conflicts through securitization of DBA. Africa Management Review, Vol. No. 3

Jonyo F. O., (2013) Democratic transition and conflicts in Kenya: Democratic Peace in Kenya, versus Democratic Conflict in Africa. In: African Renaissance, Vol. 9, No. 3 – 4

PAPERS PRESENTED

Oluoko-Odingo, A.A Gender mainstreaming in water and sanitation governance in city schools: The case of Embakasi Girl's School. Paper presented at the Research Workshop on Urban Governance for Total Sanitation. Nairobi, Kenya, February 14-15, 2013

.....Environmental costs of modern agriculture as drivers for organic farming. Paper presented at the Soroptimist International Europe Congress, Berlin, Germany, July 12-14, 2013

....and L.O. Ajuang Gender and climate risk reduction for sustainable development. Paper presented at the Greater Horn of Africa Climate Outlook Forum (GHACOF33), Bujumbura, February 18-20, 2013

.....Gender and human security. Paper presented at the Greater Horn of Africa Climate Outlook Forum (GHACOF33), Bujumbura, February 18-20, 2013

.....Gender and civil society challenges against climate change to increase community resilience. Paper presented at the 35th Greater Horn of Africa, Climate Outlook Forum (GHACOF 35). Eldoret, Kenya, August 21-23, 2013

.....Gender and climate change in the devolved system of government. Paper presented at the Gender and Climate Change Working Group Seminar, Nairobi, Kenya, May 16, 2013

.....Gender, civil society and resource consumption. Paper presented at the Greater Horn of Africa Climate Outlook Forum (GHACOF33), Bujumbura, February 18-20, 2013

Mbatia, T. Urban eco-tourism in Nairobi's Karura forest. Paper presented at Conference on Nairobi's Past, Present and Future. Nairobi, Kenya, July 3, 2013

Owuor, S.O. and D. Foeken Bringing water to our door steps: The Wandiege Community Water Supply Project in Kisumu, Kenya. Paper presented at the Research Workshop on Urban Governance for Total Sanitation, Nairobi, Kenya, February 14-15, 2013

Shah, P. Conserving biodiversity and making the planet more habitable. Paper presented at the Applied Centre for Climate and Earth Systems Science (ACCESS) Workshop, Nairobi, Kenya, July 1-10, 2013

.....Options for improving the communication of seasonal rainfall forecasts to smallholder farmers in Kenya. Paper presented at the JACS-EA/NCCR North-South Science-Policy Forum. Nairobi, Kenya, May 6-7, 2013

.....Sustainable urban housing: comparison between Kibera (Kenya) and condominiums in Addis Ababa (Ethiopia). Paper presented at the Sustainable Communities Managing Urban Futures – Workshop for Supporting Sustainability. Dar es Salaam, Tanzania, March 12-22, 2013

Wambua, B.N. Boosting intra-Africa trade: The role of regulation and policy. Paper presented at the 8thTRAPCA Conference. Arusha, Tanzania, November 21-22, 2013

Muriuki, G Keynote Address on 'Marginalized, forgotten and revived political actors, Paper Presented at the IFRA/ BIEA conference on The 50th Anniversary of Kenya's Independence 23rd to 24th September, 2013.

.....Build-up of liberation movement in Kenya. Paper Presented at the International Conference on Liberation movements: Build-up to liberation in Kenya, Karatina University, 5th-6th December, 2013

V.G. Simiyu Building safe environments: overcoming violent conflict and insecurity in Africa. Paper presented at the Fourth Africa Governance, Leadership and Management Convention on Opening up Africa to Africa, organized by The Kenya Institute of Management, (KIM), Ukunda, Mombasa Kenya, 3-6 September, 2013

.....Dini ya Msambwa and its legacy in Kenya. Paper presented at the Conference on Liberation Movements in Kenya: Mau Mau and Other Liberation Movements, organized by Karatina University and The National Museums of Kenya. Karatina University, Kenya, 2013

Amolo Achola, M Women, marriage, family and the Constitution of Kenya 2010: outlook for the future. Paper presented at the colloquium on Women's Right and the Kenya Constitution (2010)

Wahome, E.W. The forgotten heritage: The place of Mau Mau material and immaterial culture in Kenya. Paper presented at the International Conference on liberation Movements, Karatina University, 5th to 7th December, 2013

.....The abandoned heritage: the case of the Mau Mau legacy. Paper presented at the French Institute for Research in Africa Seminar with Theme 50 Years of Kenya's Independence Kenya'. IFRA /British Institute in Eastern Africa, 23rd to 24th September 2013

.....The challenges of teaching archaeology in a department of history. Paper presented at the East African Association for Paleoanthropology and Paleontology (EAAPP) Conference July 28th-August 1, 2013, Leisure Lodge, Mombasa, Kenya.

Mwiandi, M. Mediation and peace processes support perspective for East Africa" in a conference entitled "Building the Capacity of East African Governments to Support Peace Processes" held at Enashipai Resort, Naivasha, 24th -31 May, 2013.

Ngesa, P. The responses of African women traders to the vulnerabilities of the 1960s. Paper presented at the IFRA conference on the anniversary of African Independence: Marginalized, forgotten and revived political actors, September 23rd to 24th

Rayya Timmamy and A.Swale Oral literature and building of nationhood. Paper presented at the literature conference – East Africa at 50 – A celebration of Histories and Futures at University of Nairobi 10th – 12th Sept., 2013

Mwangi, I Trans-cultural currents from Europe and Asia to Africa: evidence from borrowed lexical items adapted into Kiswahili. Paper presented at the 16th Triennial ACLALS Conference at St. Lucia, West Indies with the theme: Currents in language studies / Linguistic circuits and circuits of identity or cultural exchange, August, 5 – 9, 2013

.....Kiswahili na maendeleo ya kiutamaduni: utamaduni hamishwa unavyodhihirika katika msamiati wa Kiswahili. Paper presented at the International Kiswahili Conference co-organized by CHAKITA and Catholic University of Eastern Africa, Nairobi, August 21 – 23, 2013

Mutiga, J. Rethinking lifelong translator training. Paper presented at the Conference on "European Master's in Translation (EMT), Brussels (Belgium), 13 September, 2013

.....Training of professional leaders in literacy and multilingual education in Kenya, Paper presented at Conference on German–African Network of Alumni and Alumnae (GANAA) summer school on multilingualism and language policies in Africa, the University of Pretoria (South Africa), 23-28th Sept 2013,

.....New modes of learning. Paper presented at the Conference name: “Directorate General for Interpretation, Brussels) (Belgium), 21st -22nd March, 2013

Helga Schroder. Pivot in Toposa clause Chaining, The Nilo-Saharan Linguistics Colloquium”, University of Cologne (Germany), 22nd - 24th May, 2013

.....Translation issues in clause chaining languages”, Paper presented at the Conference on Bible Translation Conference, Dallas (USA), 11th – 15th October, 2013

Oduol,J. A study of the relationship between syllable weight and stress in Dholuo. Paper presented at the Conference on Nilo – Saharan Linguistics Colloquium, University of Cologne Germany, 22nd – 24th May, 2013

.....and Xu Jing Mother tongues, literacy and official languages in Kenya. Paper presented at the Conference 8th Pan-African Reading for All Conference, Kenya Science Campus Nairobi, 12th – 16th August, 2013

W.M. Kabira. African women’s health: speaking for ourselves presented at the 3rd International Confederation of Midwives (ICM) Africa Regional Conference, Inauguration of the Confederation of African Midwives Associations (CONAMA) at Safari Park Hotel from July 14-19, 2013.

.....Women negotiating for space in leadership and governance in Africa: lessons from the Kenyan women presented at Joint Biennial Workshop of the United Nations (IANWGE) and OECD (GENDRNET) on November 6 - 7, 2013 in Paris, France.

.....Influencing national policies towards sustainable food security in Africa through research. Paper presented at International Network of Women Engineers and Scientists (INWES) Regional Conference, November 19-21, 2013, Nairobi, Kenya.

Wasamba, P. Ethical issues in digitalization and repatriation of oral literature.” A paper presented at the multimedia research and documentation colloquium, Mohammed V University-Agdal, Rabat, Morocco. 13-14 December 2013.

Nyabul, P.O. A study of the methodological similarities between Odera Oruka’s sage philosophy project and the Socratic dialectic, presented at the Odera Oruka Symposium, at the Goethe Auditorium, Nairobi, in conjunction with the Goethe Institute, German Cultural Centre, 19th - 21st, November, 2013

Maweu, J.M. Muzzling media freedom by consent? Media ownership and the coverage of the 2013 General elections in Kenya, paper presented at the Annual Media Summit, Safari Park Hotel, Nairobi, 13-15 November, 2013

....The relevance of Odera Oruka’s eco-philosophy and parental earth ethics two decades. Paper presented at the Odera Oruka Symposium organized by the Philosophical Association of Kenya held at the Goethe Institute, Nairobi, 19- 21 November, 2013

.....Speaking truth to the behind the scenes political and economic threats to journalists’ freedom and responsibility in Kenya. Paper Presented at the High Way Africa International Conference held at Rhodes University, Grahams town, South Africa on 1-2 September, 2013

.....The effectiveness of self regulatory media councils in Africa: The case of the Media Council of Kenya. Paper

presented at the Media Policy & Democracy's International Colloquium on Press Regulation and Accountability at UNISA, Pretoria, South Africa, 30 August 2013.

.....Higher education at cross roads: the dangers of commercializing university education in Kenya. Paper presented at the Riara University's First Annual International Conference on Education in Africa, Nairobi, Kenya, July 18-20, 2013

.....Biased press or biased public? the ethnicity factor in the political news production process at the standard and daily nation newspapers in Kenya. Paper presented at the International Association of Media and Communication Research (IAMCR) conference at Dublin University, Ireland on 24-29 June, 2013

Ocharo R.M. and Jeremy, G. The social factors in influencing sustained access to safe water and sanitation. A paper presented at the 3rd International Water Association Development Congress and Exhibition at the KICC, Nairobi, Kenya. 14th – 17th October 2013

Ontita E. Evaluation's call to action! how ready are we? the state of knowledge and practice of human rights and gender equality in Africa'. A Paper Presented at the International Development Evaluation Association (IDEAS) Global Assembly on the Theme 'Evaluation and Inequality: Moving Beyond the Discussion of Poverty'. Held at the Hilton Hotel, Bridgetown, Barbados; May 6 – 9, 2013.

OUTREACH AND EXTENSION

In September 2013, 18 students and 2 staff from the Free Travelling Theatre group from the Department of Literature travelled to Japan on a cultural trip organized by Osaka in the World Programme.

7.3 Institute of Anthropology, Gender and African Studies

COURSES OFFERED

In 2013, the Institute offered the following programs: 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 & Development, Doctor of Philosophy in Anthropology

ENROLMENT

In 2013, the Institute enrolled the following numbers:

B.A. Anthropology	47
B.A. Gender & Development	16
M.A. in Anthropology	4
M.A. in Gender & Development Studies	41
Ph.D.	3

INTERNATIONAL STUDENTS

In 2013, the Institute hosted two students from Italy and Germany.



Mr. Mohammed Djelid, UNESCO, Prof. Henry Mutoro, UoN and Protus Onyango of Ministry of Devolution and Planning launch the National Gender Research and Documentation Centre.

INTERNATIONAL LINKS AND COLLABORATIONS

The Institute maintained links with: Bryn Mawr College, USA, University of Bergen, Norway, Steno Health Promotion Center of the Steno Diabetes Center, Denmark, and NLA University College, Norway.

PUBLICATIONS

Bukachi, S. A., Onyango-Ouma, W., Siso, J. M., Nyamongo, I. K., Mutai, J. K., Hurtig, A-K., Olsen, O. E. and Byskov, J. (2013) Health care priority setting in Kenya: A gap analysis applying the Accountability for Reasonableness framework. *International Journal of Health Planning and Management*. DOI:10.1002/hpm.2197.

Aagaard-Hansen, J., Nyambedha, E., Wandibba, S. and Nyamongo, I. (2013). Anthropology and cross-disciplinarity at DBL. In, Olsen, A., Onbjerg, N. and Winkel, K. (Eds). *A Success Story in Danish Development AID – DBL (1964 – 2012)*. ISBN 978-87-7611-562-3. Pp. 99 – 106.

PAPERS PRESENTED

Bukachi SA . Public engagement towards human African trypanosomiasis control /elimination: the role of anthropology. Key note address presented at the 2nd joint EANETT/HAT platform scientific conference, 4th - 7th June 2013, Nairobi, Kenya.

Bett, B., Said, M., Njeru, I., Kifugo, S., Gachohi, J., Sang, R., Bukachi, S. and Grace, D. 2013. Evaluating the impacts of the development of irrigation schemes in arid and semi-arid areas in Kenya on ecosystems biodiversity and its capacity to regulate infectious diseases. Poster prepared for the Epidemics4 conference, Amsterdam, the Netherlands, 19-22 November 2013. Nairobi, Kenya: ILRI. <http://hdl.handle.net/10568/34092>.

Nyamongo, I.K. The Practice of anthropology in Kenya: balancing between “academia” & “practice”. Paper presented at the American Anthropological Association Annual Meeting. Chicago, USA. November 2013.

GRADUANDS

In 2013, the Institute graduated the following numbers:

B.A. Anthropology	29
B.A. Gender & Development	16
M.A. in Anthropology	3
M.A. in Gender & Development Studies	23
PhD.	2

STAFF

In 2013, the Institute had the following staff complement:

Professor	2
Senior Research Fellow	6
Research Fellow	4
Junior Research Fellow	3

7.4 Institute of Diplomacy and International Studies

PROGRAMMES OFFERED

In 2013, the Institute offered the following courses:

- 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 2013, the Institute enrolled the following numbers:

Diploma	106
BA	420

PGD	35
MA	266
PhD	25

INTERNATIONAL STUDENTS

In 2013, the Institute had a n international student component of 39

INTERNATIONAL LINKS AND COLLABORATION

In 2013, the Institute maintained close research and training collaborations with a number of national and international institutions including: Policy Research Institute of African Studies Association (PRIASA), New Delhi, India, Goethe University of Germany, University of Mumbai, India, University of Cyprus, Dublin City University, Ministry of Foreign Affairs(K), Ministry of East African Affairs, Tourism (K), National Defense College(K), Defense Staff College(K), NSIS (K), and the Centre for Parliamentary Studies & Training (K).

STAFF

In 2013, the Institute had the following staff complement:

Associate Professor	4
Senior Lecturer	4
Lecturer	16
Assistant Lecturer	1

GRADUANDS

In 2013, the Institute graduated the following numbers:

Diploma in International Studies	39
Diploma in Strategic Studies	25
PGD in International Relations	2
PGD in Strategic Studies	13
MA Diplomacy	17
MA ICM	51
MA International Studies	89
PhD in International Studies	2

7.5 Institute for Development Studies

The Institute for Development Studies (IDS), University of Nairobi, is the oldest of 20 such institutes in the world. It is the premier multi-disciplinary and a multi-purpose development research institute in Eastern and Southern Africa region. IDS carries out full time research on high priority areas of social-economic and political development in Kenya, Africa and the world in general.

COURSES OFFERED

In 2013, the Institute offered the MA in Development Studies program in addition to enrolling PHD candidates

ENROLMENT

In 2013, the Institute admitted 16 students to pursue the Master of Arts degree in Development Studies. In addition eight students continued pursuing Doctor of Philosophy programme in Development Studies.

GRADUANDS

In 2013, the Institute graduated 12 students.

INTERNATIONAL STUDENTS COMPONENT

Four students joined IDS in 2013 on exchange programme for mentorship under the African Leadership Centre programme, which is collaboration with the Kings College London.

RESEARCH ACTIVITIES

In the year under review, IDS made tremendous strides in its quest to remain the premier research institution on the continent. This is manifested in some of the projects the Institute engaged in locally and internationally:

AFROBAROMETER

The Institute for Development Studies released the Afrobarometer Round 5 Global Release findings on freedom of speech, sources of news and information and the spread of communication technologies in Africa.

PIMA

The Politics and Interactive Media in Africa (PIMA) hosted a roundtable briefing and discussions at the Nairobi Safari Club in February 2013. PIMA is a research project that studied how select radio and TV stations in Kenya and Zambia reflect, gather, disseminate and influence public opinion.

SOCIAL MOVEMENTS STUDY

A three-year study on social movements in East Africa was concluded in the year under review. The study, "Rethinking Social Movements in East Africa", generated knowledge on how to build and sustain social movements. It inquired into the conditions that give rise to social movements and those that lead to the fall or expiry of social movements; created the opportunity for CSO actors to interact with academia on social movements in Kenya and Uganda in order to promote healthy debates and sharing of knowledge on social movements; and generated practice-informed knowledge to help shape the form and nature of engagements between the CSOs and the society in Kenya and Uganda.

REGIONAL CENTRE OF EXCELLENCE FOR THE CLOTHING AND TEXTILE INDUSTRIES

Research carried out by the African Clothing and Footwear Research Network (ACFRN) project has underscored the need for high-level technical training for the apparel industry. Research carried out in 2010-2012, with funding from IDRC, showed that across the Eastern and Southern Africa region, most technical workers in the export clothing industry were expatriates. Since November 2012, IDS has partnered with a range of stakeholders, including the Export Processing Zones Authority (EPZA) and the African Cotton Textile Industries Federation (ACTIF), to propose the formation of Regional Centre of Excellence for Training and Skills Development for the Clothing and Textile Industries.

YOUTH EMPLOYMENT PROJECT

The Institute for Development Studies began a collaborative research project on youth employment in East Africa in January 2013. The main objective of the regional research project is to conduct quantitative and qualitative analysis

in order to identify constraints to job creation, productivity and access by the youth to employment opportunities, and identify policy implications from the results.

ACET PROJECT

A stakeholder's conference was hosted in Nairobi in November 2013 to discuss findings on Non Motorised Transport (NMT) and Paratransit research conducted in the last five years. The research was conducted under the auspices of African Centre of Excellence in Public and Non-motorised Transport (ACET). The researchers and stakeholders exchanged ideas and made proposals for informing policy and decision making relevant for improving the urban road transport sector to restore safety and sanity.

SAFIC PROJECT

The Successful African Firms and Institutional Change Project (SAFIC) is collaboration between Copenhagen Business School, Denmark, with the University of Dar es Salaam, the University of Nairobi, the Roskilde University and the University of Zambia. The Kenya country study investigates food processing and the manufacture of food processing equipment.

CHRONIC POVERTY PROJECT

From July 2013, IDS researchers worked on a project entitled "Analysis of Poverty Reduction Policies and Outcomes" funded by the Chronic Poverty Research Centre – Kenya. The research project was aimed at yielding results that help researchers, policymakers, students and other stakeholders to understand the variations in poverty reduction policies and associated outcomes and shed light on the dynamics of elements of the policy process that include inputs, outputs and outcomes of poverty reduction policies

INTERNATIONAL LINKS AND COLLABORATIONS

In 2013, the Institute for Development Studies made several international links and collaborations both as a unit and through individual staff members.

REGIONAL PROJECT

IDS worked jointly with the Institute of Policy Analysis and Research (IPAR)-Rwanda, Centre for Basic Research (CBR), Uganda, and the Economic and Social Research Foundation (ESRF), Tanzania in a project entitled "Innovative Approaches to Creating Opportunities and Incorporating Youth into East Africa's Labour Markets."

(S-S-N) ACADEMIC COOPERATION

Delegates from Bonn Rhein-Sieg University of Applied Sciences (Germany) and the University of Cape Coast (Ghana) were hosted by IDS in a workshop to explore and develop academic collaboration in various thematic areas.

AFRICAN LEADERSHIP CENTRE

The Institute for Development Studies maintained its collaboration with Kings College London in the running of the African Leadership Centre (ALC). The ALC is a Pan African centre of excellence on peace, security and development in Africa. It trains and mentors young Africans with the potential to lead and enable innovative change in their communities and in the region.

CENTRE OF EXCELLENCE COMMITTEE/ VISION 2030 COLLABORATION

A Sub-Committee of the Working Committee on the Regional Centre of Excellence for the Textile and Apparel

Industry held a consultative meeting with representatives of Vision 2030 Secretariat. The Sub-Committee paid a courtesy call to the Vision 2030 Secretariat to create awareness of the proposed centre of excellence and identify areas of collaboration.

OTU LINK

The Institute for Development Studies (IDS), in collaboration with the State of Union (SOTU) Coalition, hosted a public dialogue on “Pan Africanism - Are We Living the Dream?” The dialogue brought together scholars, Pan African activists and experts, university students, policy makers and the general public to discuss issues of Pan Africanism and African Renaissance.

PUBLICATIONS AND CONFERENCE PAPERS

W. Mitullah, T. Tufte, N. Wildermuth, A.S. Hansen-Skovmoes (editors) (2013). *Speaking up and Talking Back? The international Clearinghouse on Children, Youth and Media*. University of Gothenburg.

W. Mitullah (2013) “Institutional Context of ICT and Women’s Participation in Kenya” in *Speaking up and Talking Back? The international Clearinghouse on Children, Youth and Media*. University of Gothenburg.

J. Onjala (2013) “Merchandise Trading between Kenya and China: Implications for East African Community (EAC)” in Seifuden Adem (ed) *China’s Diplomacy in East and Central Africa*. Ashgate Publishing Ltd. England.

J. Onjala (2013) “The Experience of Chinese Support for Infrastructure: How Relevant for it for Kenya” in James Shikwati (ed). *China-Africa Partnership: The Quest for a win-win relationship*. Published by Inter Region Economic Network (IREN Kenya), 2013.

J. Onjala and M. Tuju (2013) “Kenya Implementation of the 4th FOCAC Plan of Action: Hollow Commitments and Lack of In-Country Support” in James Shikwati (ed). *China-Africa Partnership: The Quest for a win-win relationship*. Published by Inter Region Economic Network (IREN Kenya).

J. Onjala, Wagura S. S. Jesper (July 2013). *Risk Perception, Choice of Drinking Water and Water Treatment: Evidence from Kenyan Towns*. RFF Discussion Paper EfD 13-10, July 2013. Resources for the Future (RFF) and Environment for Development (EfD).

D. McCormick and P. Kamau. 2013. *Adjusting to Chinese Ascendancy in the Global Clothing Industry: African Clothing Exports in the Post-MFA Era*. ACFRN Working Paper 12.01. Available on www.acfrn.uonbi.ac.ke March 2013

D. McCormick, W. Mitullah, P. Chitere, R. Orero, and M. Orero. 2013. “Paratransit Business Strategies: A Bird’s Eye View of Matatus in Nairobi.” *Journal of Public Transportation*. 16(2): 135-152.

A.N. Mindila, A. Rodrigues, D. McCormick, R. W. Mwangi. 2013. ‘Visualization of ICT-Enabled Interactions in Micro and Small Enterprises MetaNetwork Using Dynamic Social Network Analysis’. *International Journal of Information and Communication Technology Research* 3(4): 124-133.

..... 2013. ‘Institutional Arrangement and Change Dynamics for Economic Development in an ICT Enabled Environment’. *International Journal of Information and Communication Technology Research* 3(4):149-158.

W. Mitullah. 2013. With J. Ogendi, W. Odero & M. Khayesi. 2013. ‘Pattern of Pedestrian Injuries in the City of Nairobi: Implications for Urban Safety Planning’, in *Journal of Urban Health: Bulletin of New York Academy of Medicine* 10: 1007/s11524-013-9789-8.

G. Murunga and V. Kimani. 2013. ‘Choice Matters: Elections and Democracy in Africa,’ in *AU Herald*, Vol 3 January-December 2013, pp. 60-72

P. Kamau and S. Ngigi. 2013. “Potential for Women Fish Traders to Upgrade within the Value Chain. Evidence from Kenya”. *DBA Africa Management Review*. Vol. 3 No. 2. PP 93 -107

Muluvi, A., P. Kamau and M. Gitau. 2013. Import Structure and Economic Growth in Kenya. KIPPRA Discussion Paper 9.2013.

Njuguna Ngethe, G. Michuki and R. Wanjiru, "Police Reforms in Kenya: Perceptions and Expectations from Key Stakeholders", Discussion Paper No. 116/2012, Institute of Policy Analysis and Research, Nairobi.

CONFERENCE PAPERS

M. Ommeh, D. McCormick, W. Mitullah, R. Orero, and P. Chitere. 2013. 'The Politics behind the Phasing Out of the 14-Seater Matatu in Kenya.' Paper presented at the 13th World Conference on Transport Research (WCTR) 2013 July 15- 18th Rio de Janeiro, Brazil.

R. Orero and D. McCormick. 2013. 'Cooperatives Involvement in the Paratransit Sector: Experiences and Lessons in Nairobi.' Paper presented at the Southern African Transport Conference, Pretoria, South Africa, 8-11 July 2013.

M. Ommeh, D. McCormick, W. Mitullah, R. Orero, and P. Chitere. 2013. Paratransit Labour and Regulatory Compliance.' Paper presented at the Southern African Transport Conference, Pretoria, South Africa, 8-11 July 2013.

D. McCormick and P. Kamau. 2013. 'Breaking In and Staying In: African Apparel Producers and Global Markets.' Paper presented at UNU-WIDER Conference on Learning to Compete: Industrial Development and Policy in Africa, Helsinki, Finland 24-25 June 2013.

J. Onjala. 2013. "Trading within Sino-African Relations: FOCAC Commitments and the Dynamics of Implementation in Kenya." Presented during 3rd meeting of China-Africa Think Tanks Forum (CATTFF) held in Beijing, China, in October.

J. Onjala. 2013. "Transport Infrastructure Integration in East Africa: Security Implications for the Indian Ocean Rim." Paper presented at the "Africa: 54Countries, One Union-Integration and Infrastructure" forum on 24-25 October in Beijing.

J. Onjala. 2013. Policies towards Strengthening Cities as Engines of National Economic Growth. UNCRD and UN-Habitat Forum for Mayors and Senior Urban Officials on Sustainable Urban Development and Management in Africa. 27-29 November 2013 at UNEP Gigiri, Nairobi.

P. Kamau, G. Michuki, C. Gatimu, and D. McCormick. 2013. 'Availability of Technical Skills in the Kenyan Clothing Industry and its Implications on Competitiveness in the Post-MFA Era.' Paper presented at UNU-WIDER Conference on Learning to Compete: Industrial Development and Policy in Africa, Helsinki, Finland 24-25 June 2013.

W. Mitullah. 2013 "Mobile Phones and Women's Advancement in Mathare Low Income Settlement in Nairobi, Kenya". Presented during the Nordmedia Conference in Oslo, Norway, on 7th – 12th August.

R. Atieno. 2013. "Does growth lead to decent jobs?" presented at a conference on "Beyond Rio+20: Emerging Challenges and Opportunities" in Accra Ghana, 20-22 November.

R. Atieno. 2013. "What should be included in the post 2015 development Agenda." Presented during the national forum on the post-2015 development organised by the Ministry of Devolution and Planning in June.

P. Kamau. 2013. "Developing information systems, producing and managing accurate and relevant data." Presented Johannesburg meeting, held from 14 to 16 October.

G. Murunga. 2013. "Jubilee Coalition at 100 Days: Emerging Governance Trends and Prospects," Paper presented at a Public Forum on 100 days of the Jubilee Government organized by the Heinrich Boll Stiftung office for East and Horn of Africa at KICC, Nairobi, on 18th July 2013. Godwin Murunga . 2013. "Policing the 2013 Elections,"

Paper presented at a Workshop on the Kenyan Elections of 2013 jointly organized by Oxford University and IDS, University of Nairobi on 3-4 June 2013 at Mt. Kenya Safari Club, Nairobi 16.

G. Murunga. 2013. "Creating Knowledge on the Governance Issue: The Contribution of Research Institutions to the APRM," Presentation at the Civil Society Colloquium on APRM+10: Reviewing a Decade of Peer Learning and Projecting a Future of Governance in Africa held at Africa Hall on 17-18 May 2013 in Addis Ababa.

G. Murunga. 2013. Panel Presentation on Executive Education in African Universities, presented at the QS-Maple-University of Johannesburg Conference on Higher Education in Africa and the Middle East held on 7-8 May 2013 in Johannesburg, South Africa.

G. Murunga. 2013. "Young Women's Leadership in Kenya", Presentation at the Colloquium on Democracy, Governance and Leadership: A Gender Perspective Jointly organized by Maseno University and Danske Universiteter at Kisumu Hotel on 26th April 2013.

G. Murunga. 2013. "Electoral Violence," panel presentation at the Multi-Stakeholder Dialogue on the Future of Democracy and Peace in Africa: Towards the AU Agenda 2063 Jointly organized by the AU-UNDP at Balalaika Hotel, Sandton, Johannesburg, South Africa from 18th to 19th November 2013.

P. Kamau. 2013. The United Nation University –World Institute for Development Economic Research (UNU-WIDER) International Conference on Learning to Compete: Industrial Development and Policy in Africa. Organised by UNU-WIDER in Helsinki, Finland. 23rd -27th June 2013.

P. Kamau. 2013. The World Economic Forum Regional workshop on Competitiveness in EAC Countries. Organised by WEF in Arusha, Tanzania. 7th June 2013.

P. Kamau. 2013. "Leadership and Composition of Social Movements in Kenya" paper presented at the Social Movements in East Africa workshop held on November 14, at the Nairobi Safari Club.

P. Kamau, D. McCormick and C. Gatimu. 2013. "The Policy Fit in Kenya's Textile and Clothing Industry", paper presented at the "Textile and Leather Conference" organized by Kenya Bureau of Statistics and held on August 29 at the Boma Hotel, Nairobi.

P. Kamau. 2013. 'Accounting for the Gender Gap in Youth Unemployment in Africa: The Case of Kenya'. Paper presented during the AERC Biannual Research Workshop on 'Financial Inclusion and Innovation in Africa. Safari Park Hotel, Nairobi. 1st - 5th December 2013.

P. Kamau. 2013. 'Chinese Ascendancy in the Global Clothing Industry: Implications for Sub-Saharan Africa' A paper presented during the Making Sense of the China-Africa Relationship: Theoretical Approaches and the Politics of Knowledge conference organised by the Yale University and the Social Science Research Council (SSRC), Yale University, New Haven, Connecticut, USA, 18-19 November 2013.

P. Kamau. 2013. "Developing information systems, producing and managing accurate and relevant data." A paper presented during the Cities Alliance Africa Strategy Meeting held at Balalaika Protea Hotel, Sandton, Johannesburg, South Africa 14-16 October 2013.

P. Kamau. 2013. 'Availability of Technical Skills in the Kenyan Clothing Industry and its Implications on Competitiveness in the Post-MFA Era' A paper presented during the UNU-WIDER International Conference on Learning to Compete: Industrial Development and Policy in Africa. Helsinki, Finland. 23rd -27th June 2013.

P. Kamau. 2013. 'Accounting for the Gender Gap in Youth Unemployment in Africa: The Case of Kenya'. A paper presented during the AERC Biannual Workshop held in Arusha, Tanzania. 2nd - 6th June 2013.

P. Kamau. 2013. 'Kenya Country Background Report' A paper presented during the 2nd International Conference on Successful African Firms and Institutional Change (SAFIC) held in Livingstone, Zambia. 26th February – 1st March 2013.

G. Michuki . 2013. "Producing for Who? The Khat Question in Kenya" paper presented at the second NACADA Conference on Alcohol and Drug Abuse held on June 2013 in Nairobi, Kenya. The paper is co-authored by Joshua Kivuva.

W. Mitullah .2013. African Studies Association Annual Conference: Mobility, Migration and Flows, Presented paper on 'Public Accountability Ideals in Kenya and Realities in Service Delivery' 21st to 24th November.

W. Mitullah .2013. Key Note Speaker, Media and Conflict: Annual Media Summit 2013: Media and Elections in Kenya. Organised by School of Journalism & Mass Communication, University of Nairobi. Safari Park Hotel, Nairobi, 13 – 15th November.

W. Mitullah. 2013. Resource Person. UoN RRI on Role of the University on Nairobi in Implementation of the Constitution: The University Council, Management and Senate Sensitization, presented on the theme of Devolution and Finance. Central Catering Unit (CCU), University of Nairobi, 3rd September.

W. Mitullah .2013. Nordmedia 2013 Conference: Presented paper on 'Mobile Phones and Women's Advancement in Mathare Low Income Settlement in Nairobi, Kenya'. Oslo, Norway, 7th – 12th August.

W. Mitullah .2013. Panelist: Enhancing Gender Equity in Leadership and Management of Higher Education. Taifa Hall University of Nairobi, Monday, 26th August.

W. Mitullah . 2013. Politics and Interactive Media in Africa (PIMA) Workshop. Presented two papers: 'Politics and Interactive Media in Kenya: Background Paper' and Preliminary Research Findings on Interactive Media in Kenya'. Lusaka, Malawi ,15th to 18th July.

STAFF

In 2013, the Institute had the following staff complement:

Research Professor	2
Associate Research Professor	5
Senior Research Fellow	6
Research Fellow	4
Junior Research Fellow	1

7.6 School of Law

The Faculty of Law was established in 1970 and has evolved steadily from its earlier status as a department of the Faculty of Commerce in the 1960s to one of the largest Law Schools in East and Central Africa. The School has three Campuses: School of Law, Parklands, Mombasa and Kisumu campuses. The School has three departments: Commercial Law, Private Law and Public Law Departments.

STAFF

In 2013, the School had a staff complement of:

Professor	5
Associate Professor	9
Senior Lecturer	10
Lecturer	41



Prof. Patricia Kameri-Mbote presented her inaugural lecture on Multiple Exclusions of Law and Legal Discourses.

COURSES OFFERED

In 2013, the School offered the following courses: Bachelor of Laws (LL.B), Master of Laws (LL.M) in various thematic areas, and PhD in various thematic areas.

ENROLMENT

In 2013, the School enrolled the following numbers:

PhD	3
Master of Laws (LL.M)	178
Bachelor of Laws (LL.B)	2,500

RESEARCH INTERESTS

In 2013, staff engaged in research interests in the School that included: international trade and investment, law in society, gender, environmental and natural resource protection, intellectual property, governance and technology.

INTERNATIONAL LINKS AND COLLABORATIONS

In 2013, the School had links with organizations that included: International Development Research Centre (IDRC), Canada, FORD Foundation, Norwegian Agency for International Development, Norwegian Research Council, South and Eastern Africa Research Centre on Women's Law, University of Zimbabwe.

GRADUANDS

In 2013, the School graduated the following numbers:

PhD	2
Masters (LL.M)	54
Bachelor of Laws (LL.B)	398

7.7 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 providing backstopping in the fields of population and reproductive health.

PROGRAMMES OFFERED

In 2013, the Institute offered the following courses: MA in Population Studies, Msc in Population Studies, MA in Monitoring and Evaluation of Population and Development Programs, Monitoring and Evaluation of Population and Health Programs, PhD in Population Studies.

ENROLMENT

In 2013, the Institute enrolled the following numbers:

M.A	22
MSc.	7
M.A in M&E	13
PhD	10
Certificate course in M&E	45

GRADUANDS

In 2013, the Institute graduated 11 masters and 2 PhDs.

STAFF

In 2013, the institute had the following staff complement:

Professor	1
Associate Professor	3
Senior Lecturer	2
Lecturer	4
Assistant Lecturer	1

RESEARCH ACTIVITIES

A. Otieno, B. Jarabi, A. Khasakhala, S. Wakibi, W. Gichuhi, M. Kimani, A. Mutuku, G. Odipo and L. Ikamari participated in the training and data collection and processing of the Multiple Indicator Cluster Survey (MICS 5) Training in Kitale, October 22- 1 November 2013

A. Otieno, B. Jarabi, A. Khasakhala, S. Wakibi, W. Gichuhi, M. Kimani and L. Ikamari, in partnership with the Kenya National Bureau of Statistics and UNICEF, Kenya Country Office, carried out the Multiple Indicator Cluster Surveys in Kakamega, Bungoma and Turkana counties between 18 November 2013 and December 2013.

A. Khasakhala, A. Otieno and J.A.M. Jensen; Poverty and fertility: The Role of Gender and Reproductive Health. Funded by the Norwegian Research Council

Mutuku, A.K. (2013). Determinants of fertility transition in Kenya: 2003-2008/9. ICF Macro Working Paper Series. Calverton, Maryland, USA. February.

L. Ikamari, C. Izugbara and R. Ochako continued with the research work on unintended pregnancy in Kenya.

PSRI in conjunction with NCPD prepared seven policy briefs based on the Situation Analysis Report of: Accelerating Fertility Decline in Kenya, Strengthening Kenya's Health System for Better Reproductive Health, Youth: Curbing Early Marriage Improves their Prospects, Differentials in Maternal Mortality in Kenya: a need for prioritize interventions, Understanding Inequalities in Population and Reproductive Health Behaviors in Kenya, Reaping Socio-Economic Benefits from Kenya's Population, and Non-existent migration and urbanization policy hinders Kenya's development. This activity was funded by the UNFPA Kenya Country Office.

PAPERS PRESENTED

Oucho, J.O. Engaging the East African Diaspora. Paper presented at the International Conference on Diasporas, Development and Governance in the South held at the Balsillie School of International Affairs, Waterloo, Canada, 26-27 May ,2013.

Oucho, J.O. Migration-Development Nexus in the Great Lakes Region: Prospects for Greater East African Regional Integration. Lecture delivered to the Training Programme for Officials from the Great Lakes Region organised by the Geneva Graduate Institute of International and Development Studies with the International Conference on the Great Lakes Region (ICGLR) with the support of the Swiss Agency for Development and Cooperation (SDC), 5 June 2013.

Oucho, J.O. Forty Years of Training and Scholarship for Africa's Development: An Appreciation of the Regional Institute for Population Studies, University of Ghana. Keynote Lecture delivered at the 40th Anniversary of the Regional Institute for Population Studies (RIPS), University of Ghana, Legon, 7 June 2013.

Otieno, A. Resource scarcity and demography: Are cities solutions? Paper presented at 6th ESA (ecological society of East Africa) Scientific and Policy Conference on Natural Capital, Resilience and Sustainable Development in Eastern Africa 28th -28 – 30 August 2013, Kenya school of Government.



Prof. Henry Mutoro receives a car donation from Dr. Benjamin Alli of UNFPA for use by the Population Studies Research Institute.

PUBLICATIONS

Ngunyi, M. and Oucho, J.O. Migration and Human Security in the Eastern and South Africa Region, Migration Knowledge Series Vol. I. Djibouti: Inter-Governmental Authority on Development (IGAD), 2013.

Oucho, J.O., Oucho, L.A. and Ong'ayo, A.O. (2013) The Biggest Fish in the Sea? Dynamic Kenyan Migration in the East African Community; Research Report ACPOBS/2013/PU02. Brussels: ACP Observatory on Migration.

Anich, R., Melde, S., Crush, J. and Oucho, J.O. (eds.), Human Mobility in the South: A New Perspective. Springer, 2013.

Oucho, J. O. "Labour mobility, regional integration and social protection in Southern economies", in R. Anich, S. Melde, J. Crush and J.O. Oucho (eds.), Human Mobility in the South: A New Perspective. Springer, 2013.

Oucho, J.O. (2013) "Prospects for free movement in the East African Community", in Regions and Cohesion, 3 (3), 2013, Special Issue.

Oucho, J.O. (2013) Chapter 12: "International Migration and Development in Kenya", National Council for Population and Development (NCPD), Kenya Population Situation Analysis. Nairobi: NCPD, pp. 215-241.

Khasakhala, A. 2013 'Mainstreaming HIV Intervention into Education Systems' in Vulnerabilities, Impacts, and Responses to HIV/AIDS in Sub-Saharan Africa, editors (Getnet Tadele and Helmut Kloos), Pelgrave, Macmillan, pp. pp.196-211.

Khasakhala, A. and H. Kloos, 2013 'Monitoring and Evaluation of HIV/AIDS Prevention Programs' in Vulnerabilities, Impacts, and Responses to HIV/AIDS in Sub-Saharan Africa, editors (Getnet Tadele and Helmut Kloos), Pelgrave, Macmillan, pp. pp. pp.212-231.

Khasakhala, A. and H. Kloos, 2013 'Issues in HIV biomedical Research in Sub-Sahara Africa' in Vulnerabilities, Impacts, and Responses to HIV/AIDS in Sub-Saharan Africa, editors (Getnet Tadele and Helmut Kloos), Pelgrave, Macmillan, pp.232-252.

Van Malderen, Carine, I. Ogali, A. Khasakhala, S.N Muchiri, Corey Sparks, Herman Van Oyen and Niko Speybroeck, 2013. Decomposing Kenyan socio-economic inequalities in skilled birth attendance and measles immunization. International Journal for Equity in Health 2013, 12:3

Ikamari, L 2013. 'Regional variation in neonatal and post-neonatal mortality in Kenya, Journal of African Population Studies , Volume 27 (1): April 2013.

Ikamari, L., C. Izugbara and R. Ochako, 2013: 'Prevalence and determinants of unintended pregnancy among women in Nairobi, Kenya', BMC Pregnancy and Childbirth, 2013: 13: 69

Kimani, M. ; M. Njeru and G. Gathari. 2013. 'Regional variations in contraceptive use in Kenya: comparison of Nyanza, Coast and Central Provinces' African Population Studies Vol. 27 No. 1(April).

7.8 School of Business

The School of Business, formerly Faculty of Commerce, provides leadership in the pursuit of business management programmes, providing knowledge and applications through customer-driven teaching, training, research, consultancy and community services.

COURSES OFFERED

In 2013, the School offered seven programmes namely: Bachelor of Commerce (B.Com), Master of Business Administration (MBA), Master of Science in Finance (MSc. Finance), Master of Science programmes in Human Resource Management, Marketing, Entrepreneurship & Innovations Management, and the Doctor of Philosophy (PhD) in Business Administration.

ENROLMENT

In 2013, the School enrolled the following numbers:

Undergraduate	7560
Postgraduate	4870

INTERNATIONAL LINKS AND COLLABORATIONS

In 2013, the School maintained links with the following organizations: GfK-Germany, European Foundation for Management and Development, Shanghai Finance University.

STAFF

In 2013, the School had the following staff complement:

Professor	3
Associate Professor	5
Senior Lecturer	11
Lecturer	43
Assistant Lecturer/TF	27

GRADUANDS

In 2013, the School graduated the following numbers:

B.Com	1769
MBA	1395
MSc. Finance	116
PhD	19

PUBLICATIONS

Nzuve S.N.M. and Kaimuri L.N. (2013): Perceived factors affecting performance management among local authorities in Kenya. A Case Study of the City Council of Nairobi. *DBA Africa Management Review*, 3:2, 59-69

Nzuve S.N.M. and Nyaega G. (2013). "Application of balance scorecard in performance measurement at ESSAR Telecom Kenya Limited". *Social Science Research Network (SSRN)*, <http://dx.doi.org/10.2139/ssrn.223133>

Nzuve S.N.M. and Kiilu L.M. (2013): "Causes of industrial dispute". a case study of the garment factories at the Athi river export processing zones. *Problems of Management in the 21st Century*, 6:48-59

Nzuve S.N.M. and Mwarey C.D. (2013): "Human resource planning in faith based hospitals in Kenya". *Social Science Research Network*. <http://dx/doi.org/10.2139/22rn.2223924>

Namada J.M., Aosa E., Awino Z. and Gituro W. (2013). "Management participation and firm performance". *American Journal of Industrial and Business Management* (in press)

Rugami J.M. and Aosa E. (2013). "Environmental dynamic capabilities and their effect on competitive advantage and firm performance". *Business Administration and Management*, 3(11), pp. 1239-1243, November

O.I.Mayienda, Omido Dr. Karim, G. H Musa, O. Odhiambo, and Ogutu M. Aanalysis of retail mmarketing sstrategies on organizational ccompetitiveness. *International Journal of Management & Information Technology*, Volume 3, Issue 2, (2013)

- Comparative study on brand loyalty in global soft drink consumer markets of Kenya and India. Mise, J.K., N. Chandrasekeran, O. Odhiambo, and Ogutu M., *International Journal of Management Sciences and Business Research*, 2013, Volume 2, Issue 3, (2013)
- Effect of airport expansion on business opportunities in Kisumu. Awiti, A. O. Okoth O. S., Aila F.O., Okelo S., Odera O., and Ogutu M., *International Journal of Business and Behavioral Sciences*, Volume 3, Issue 2, (2013)
- The Future Of Organizations: Musings of A Manager. Aila, F.O., Nyangara, C. A., Ojera P.B., Owaga E.E., Odera O., and Ogutu M., *Asian Journal Of Management Sciences And Education*, Volume 2, Issue 2, (2013)
- Top Management Team Diversity, Quality Decisions and Organizational Performance in the Service Industry, Z. Awino www.sciedu.ca/jms *Journal of Management and Strategy* Vol. 4, No. 1; 2013. Published by Sciedu Press 1 ISSN 1923-3965 E-ISSN 1923-3973
- Marika N. (2013). "Assessing the E-readiness for Video-teleconferencing Adoption and its Perceived Impacts in Higher Education in Kenya". *Prime Journal of Social Science*. Vol 2(issue 5)
- Mutuku C., K'Obonyo P., Awino Z.B. (2013). Top Management Team Diversity, Quality Decisions and Performance of Commercial Banks in Kenya. *Asian Journal of Humanities and Social Sciences (AJHSS)* 1(3): 101-113
- Mahasi J., Awino Z.B., Pokhariyal G. and Ombaka B. (2013). The Influence of External Stakeholders and Expansion Strategies on the Relationship between Organizational Resources and Firm Performance. *Journal of Emerging Trends in Economics and Management Sciences (JETEMS)* 4(5): 449-459
- Mutuku C., K'Obonyo P., Awino Z.B., Musyoka M. (2013). Top Management Team Diversity, Involvement Culture and Performance of Commercial Banks in Kenya. *DBA Africa Management Review* 3(2): 70-80
- Musuva A.M., Ogutu M., Awino Z.B., Yabs J. (2013). The Influence of Firm Capabilities on the Internationalization and Performance of Publicly Quoted Companies in Kenya. *DBA Africa Management Review* 3(2): 40-58
- Awino Z.B. (2013). Strategic Planning and Competitive Advantage of ICT Small and Medium Enterprises in Kenya. *Business and Management Horizons*, Vol. 1 No. 1 pp. 191-204
- Awino Z.B. (2013). Diversity Management Strategies and Quality Decisions in the Banking Sector. *American Journal of Business and Management*, Vol. 2, No.2 pp. 125-129
- Kiliko J., Atandi B., Awino Z.B. (2013). Strategic Planning in Turbulent Environment: A Conceptual View. *DBA Africa Management Review*, Vol. 3, No. 1 pp. 73-89
- Musyoka M., Ogutu M., Awino Z.B. (2013). Employee Stress and Performance of Companies Listed in the Nairobi Securities Exchange. *DBA Africa Management Review*. Vol. 3, No. 1 pp. 115-129
- Musyoka M., Ogutu M., Awino Z.B. (2013). The Role of Stress Management in Reducing Stress and Enhancing Corporate Performance: A Case of the Nairobi Securities Exchange. *Prime Journal of Business Administration and Management (BAM)* Vol. 3(2) pp. 887-895
- Awino Z.B. (2013). Top Management and Team Diversity, Quality Decisions and Organizational Performance in the Service Industry. *Journal of Management and Strategy*, Vol. 4 No. 1 pp. 113-123
- Munyoki, J.M., Chepkwony, K.S. (2013): A survey of factors influencing consumers' choice of edible oils in Buruburu Area, Nairobi, Kenya. *Operations Research of Eastern Africa (ORSEA) Journal* Vol. 3 Issue 1
- Munyoki, J.M., Kilika, J.M, K'Obonyo, P., Ogutu, M. (2013): Human Resource development drivers for University-Industry collaboration: Empirical evidence from Universities in Kenya. *International Journal of Education and Research*. Vol 1 No 4, April 2013 pp 81 -98

Munyoki, J.M., Asiabugwa M.A. (2013): E-commerce Strategy and Performance of Commercial Banks In Kenya. African International Journal of Business and Management Vol 3, 2013, pp 52-66

Munjuri, M.G. (Corresponding author), Workforce Diversity Management and Employee Performance in the Banking Sector in Kenya, DBA Africa Management Review, Vol. 3, No. 1 pp. 1-21

Munjuri, M. G. A Survey of the Use of Peer Assessment In Business Schools in Kenyan Universities: A Case of Selected Universities In Kenya, International Journal of Education and Research Vol. 1 No. 3 March 2013

K'Obonyo, P.O., Busienei, J.R., Ogutu, M. (2013): The effect of Human Resource Strategic Orientation on Performance of Large Private Manufacturing Firms in Kenya. Prime Journal of Business Administration and Management. Vol.3 Issue 1. Pp822-833.

Mutuku, C., K'Obonyo, P., Awino, Z.B., (2013): Top Management Team Diversity, Involvement Culture and Performance of Commercial Banks in Kenya. DBA Africa Management Review. 3(2): 70-80.

Maalu, J., Mc Cormick, D., K'Obonyo, P., (2013): Succession Strategy and Performance of Small and Medium Family Business in Nairobi, Kenya. International Journal of Education and Research. 1(6).

RESEARCH AND CONFERENCES

In 2013, the School hosted two successful international conferences:

- The Second African International Business and Management Conference (AIBUMA 2013).
- The Operations Research Society of East Africa (ORSEA).
- The School published the DBA Africa Management Review Journal Vol III Issue 3.

7.9 School of Economics

INTRODUCTION

The School of Economics is one of the largest units of the University of Nairobi. It has the largest pool of economists in Kenya and in East Africa, and offers specialized training in economics at the bachelors, masters and doctoral levels.

PROGRAMMES OFFERED

In 2013, the School offered two undergraduate programs in: Bachelor of economics , and bachelor of economics and statistics. The School had four Masters programmes in : economics, economic policy management, economics of multilateral trading systems, and health economics and policy, and a two in one doctoral program, : a collaborative PhD Program under the African Economic research consortium, and a local PhD program by course work and thesis.

ENROLMENT

In 2013, the school enrolled the following numbers:

PhD in Economics	18
MA in Economics	100
MA in Economic Policy Management	43
MSc. in Health Economics & Policy	65
Bachelor of Economics	359
Bachelor of Economics & Statistics	442

STAFF

In 2013, the institute had the following staff complement:

Professor	1
Associate Professor	3
Senior Lecturer	2
Lecturer	4
Assistant Lecturer	1

INTERNATIONAL STUDENT COMPONENT

In 2013, the International Student component in the School was 19 students.

RESEARCH

In 2013, members of staff undertook research in : Social protection and the vulnerable communities in east Africa, Climate change and adaptation, Trade liberalization and food security, International trade processes and tax policy , food nutrition and security, FDI in Africa: Theory and practice, Regional trade integration and conflicts, Privatization in Africa.

INTERNATIONAL LINKS AND COLLABORATIONS

The School maintained active external links in 2013, collaborating with various institutions in research and consultancy, capacity building, staff and student exchange, curriculum development, and dissemination of research findings. Some of the organisations included: Central Bank of Kenya, Tilburg University, World Vision Kenya, University of Rome Tor Vergata (Centre for Economic and International Relations), Orebro University, Insurance Regulatory Authority, University of Gothenburg , African Economic Research Consortium, World Trade Organization (WTO), and UNCTAD Virtual Institute on Trade and Development.

PUBLICATIONS

Kabubo-Mariara J., A. Araar & J-Y Duclos (2013). Multidimensional Poverty and Child Well-being in Kenya. *Journal of Developing Areas*, 47(2) 109-137 | DOI: 10.1353/jda.2013.0024

Kabubo-Mariara J. (2013). Forest-poverty nexus: Exploring the contribution of forests to rural livelihoods in Kenya. *Natural Resources Forum*. 37 (2013) 177–188 | DOI: 10.1111/1477-8947.12003

Kabubo- Mariara J. et al., (2013) - Tenure security and ecosystem service provisioning in Kenya. Chapter 17, in, *Nature's Wealth: The Economics of Ecosystem Services and Poverty*. Van Beukering et. al. (ed). Cambridge University Press.

Ongoro, T.N. (2013). 'Transnational Corporations as subjects of International Economic Relations'. Chapter IV Pg. 70-109. In: Prof. EV Dokimov, A.I. (Ed.). *International Economic Relations (New Edition)*. "Prospect", Moscow.

Ongoro, T.N. (2013) 'International Migration of Capital: Theory and Practice Chapter XVII. Pp. 460 – 502. In: Prof. EV Dokimov, A.I. (Editor). *International Economic Relations (New Edition)*. "Prospect", Moscow,.

Ongoro, T.N. (2013). 'Russia in the System of International Mobility of Financial Resources'. Chapter XVIII. Pp.503-517. In: Prof. EV Dokimov, A.I. (Ed.). *International Economic Relations (New Edition)*. "Prospect", Moscow.

Manda, D. K. (2013). Revisiting the Growth, Inequality and Poverty Nexus: An overview." *Journal of African Economies*. Vol. 22, (suppl 1): 4-14

Osotsi, J. A., Mutua, J., Nyaga, R. and Muthaka, D. (2013). - Institutions and Performance of Services Funded by the Constituencies Development Fund in Kenya, *Journal of African Development*, Vol. 15 (1), pp 271-286.

Wambugu, A. (2013), Family background, education and adult earnings in Kenya. *International Journal of Education and Research*, Vol. 1, No. 9, pp 23-40

Vuluku, G., Wambugu A., and Moyi E. (2013) - Unemployment and Underemployment in Kenya: A Gender Gap Analysis. *Economics*. Vol. 2, No. 2, pp. 7-16.

Kioko U. (2013) -Economic Burden of Malaria on Subsistence Crop Production in Kenya. *International Journal of Education and Research (IJER)*, Vol. 1 No. 2 pp 1-20.

Kioko, U.M., Mwabu, G.M. and Kimuyu, P.K. (2013) -The economic impact of malaria on wage earnings in Kenya: a household level investigation. *International Journal of Education and Research*, Vol. 1 No. 4 pp 1-18.

Abala, D O., Mwabu, G, and Mwega, F (2013): "Does Total Factor Productivity Matter for Exports? Kenyan Evidence", *African Journal of Social Science*, Vol. 3 No. 2, pp. 30-44.

Abala, D.O. (2013) "Determinants of Manufactured Exports in Kenya: An Application of Control Function Approach" *DBA Africa Management Review* vol. 3 No.1 pp 50-72

Abala, D.O. (2013) "Export propensity and intensity of Kenyan manufacturing firms: An Empirical Analysis" *Journal of Emerging issues in Economics ,Finance and Banking (JEIFB)* Vol. 2 No. 2, pp 616-634.

CONFERENCES

The School organized six (6) conferences/workshops that were open to the public, but facilitated by external resource persons.

"Africa as the Growth Continent" by the Director, World Trade Organization, Council Chamber, University of Nairobi, 22nd May 2013.

UNCTAD VI Training Workshop on Trade Empirics using STATA: University of Nairobi, 6th to 9th August, 2013.

Environment for Development -Kenya First Annual Workshop. Fairview Hotel Nairobi. 7th August, 2013.

Poverty, Agricultural Production and the Formalization of Property Rights". By Prof. Howard Stein, Michigan State University. Lecture held at ED II, 30th September 2013.

Crash and Beyond: Causes and Consequences of the Global Financial Crisis. Lecture by Prof. Andrew Farrow, University of Oxford. Lecture held at ED II, 30th September 2013.

National Workshop on Innovation Policy, Co-organized by School of Economics (UoN) and Tilburg University, 11th October, 2013, Nairobi Safari Club, Nairobi.

PAPERS PRESENTED

Kiriti-Nganga Non tariff measures in Kenya: A revisit", Paper Presented at the WTO Chairs Annual Conference in Geneva Switzerland from the 11th to 12th July 2013.

Kiriti-Nganga, T. "Documentation of women's experiences in food security in Kajiado County in Kenya" Paper presented at the Australian Alumni Conference titled: Leading Change: Australia Awards Alumni in Africa's Development" in Cape Town South Africa from the 8th to the 12th of September 2013. <http://www.australiaawardsafrica.org/alumni-conference/>

Kiriti-Nganga, T. "The impact of social protection on the welfare of vulnerable communities in East Africa: A case study from Kenya". Paper Presented a Conference on Financing Social Protection at the Serena Hotel in Entebbe Uganda from the 20-24th of October 2013

Kiriti-Nganga, T. Cost of gender gaps in the agricultural sector in selected sub-saharan African countries". Paper presented at a Methodology Workshop from the 19th to 21st November 2013 at the Safari Park Hotel Sponsored by the UN women and African Women's Studies Centre.

J. Kabubo-Mariara. "Pro-poor growth, inequality, and institutions in Kenya", Paper presented at IAD Spring 2013 Symposium on Growth, Poverty and Inequality: Confronting the Challenges of a Better Life for all Africa. In Honor of Erik Thorbecke, H.E. Babcock Professor Emeritus of Economics, Cornell University. April 19–20.

J. Kabubo-Mariara. Inequality, poverty and growth: understanding the linkages in Kenya. Paper presented at the 14th annual global development Conference on Inequality, Social Protection and Inclusive Growth. Manila, The Philippines. June 19- 21, 2013.

J. Kabubo-Mariara "Climate change, crop productivity, farm profitability and agricultural adaption in Kenya" Paper presented at the Environment for Development Annual Workshop, Nairobi, August 15th 2013.

J. Kabubo-Mariara "Climate change, food security and vulnerability in Kenya". Paper presented at the Environment for Development 7th Annual Meeting, Cape Town, South Africa. October 22-27th 2013.

B. Kinuthia. "Productivity spillovers from foreign direct investment in Malaysia". Paper Presented at the 5th Annual International Conference. 'Growth: Critical Perspectives from Asia', University of Copenhagen, June 13-14 2013.

M. Muriithi. "Demographic transition and demographic dividends: evidence from Kenya's national transfer accounts". Paper presented at the 'Ninth Meeting of the Working Group on Macroeconomic Aspects of Intergenerational Transfers'. Barcelona – 8th June, 2013.

M. Muriithi. "Priority setting on social determinants of health: a case study of national schools health policy in Kenya". Paper presented at the Third Steering Group Meeting and Second Regional Meeting – Africa, Rio de Janeiro, Brazil – 23rd-26th October, 2013.

O. Nyang'oro. "Portfolio flows and stock market performance in Kenya", Paper presented at CSAE Conference on Economic Development in Africa, University of Oxford, March 2013.

O. Nyang'oro "Determinants of capital structure of listed companies in Kenya and the impact of corporate tax". Paper presented at AERC biannual workshops in June 2013.

J.K. Gathiaka "Uplifting poor smallholder farmers in Kenya through the mobile phones". paper Presented at a workshop Organized by Linkoping University & University of Nairobi, Kenya Science Campus, 14-16 February, 2013.

J.K. Gathiaka "Externalities of farming in forestlands in Kenya" Paper Presented at the Environment for development (EfD) Annual Workshop, Nairobi, 7 August 2013.

J.K. Gathiaka "Competition issues in the sugar industry in Eastern and Southern Africa" Paper Presented at the African Competition Forum, Botswana, 23rd-24th October, 2013.

8.0 School of Journalism & Mass Communication

The School of Journalism and Mass Communication is one of the twelve Centres of Excellence in Communication and Media training in Africa, and the only one in Kenya.

COURSES OFFERED

In 2013, the School 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 2013, the School enrolled the following numbers:

PhD in CIS	7
M.A (Communication Studies)	281
B.A (Journalism & Media Studies)	1,180
B.A (Broadcast Production)	127

PUBLICATIONS

Ndeti N. "Integrated Marketing Communication and Technology Adoption: A Case of Safaricom's M-Pesa Mobile Money Transfer Services in Kenya. Published by African Journal of Science, Technology, Innovation and Development. Vol. 5. No. 5. Pp 363.". 2013.

Ndeti N, Kiai W, Mogambi H. "Priming HIV/AIDS messages in Kenyan Print Media: Patterns, Issues and Practices." Sage Open. 2013;Vol. 3 No.(Oct – Dec 2013

Ndeti N. "The Social Construction of Meaning and Values regarding HIV and AIDS through Interpersonal Communication: A Study of High School Students in Nairobi ." African Journal of Communication, . 2013;Vol. 1 No. 1 (2013).

Ndeti N. and Mulwa M. "Network Logic and the Stabilization of Mobile Banking Products: A Case Study of Selected Mobile Banking Products in Kenya." International Journal of Innovative Research and Development. 2013;Vol. 2 Issue 8.ISSN: 278-0211(Online).

Ndeti N. Interpersonal Communication and HIV/AIDS: Influencing Behavioural Responses to HIV/AIDS amongst Students. Nairobi: Nairobi Academic Press; 2013.

PRESENTATIONS

Ngugi M. "Communication Training Opportunities: Suggestions for UNFPA on Communications Capacity Building." In: Media Consultation on Accelerating Maternal Mortality Reduction in Africa. Speke Resort Munyonyo, Kampala, Uganda; 2013.

Ndeti N., et al. "Media Portrayal and Disability Mainstreaming." In: School of Human Resource Annual Research Conference. JKUAT Main Campus; 2013.

Ndeti N. et al "The Effectiveness of Communication Campaigns in Enhancing Knowledge of Mental Health in Kenya." In: School of Human Resource Development Annual Research Conference. JKUAT Main Campus; 2013.

Ndeti N., et al. "Barriers to Uptake and Use of Agency Banking products targeting Poor and Marginalized populations in Kenya.". In: Reaching the Unreached: Mobile Money Uptake in Ghana. Accra, Ghana; 2013.

STAFF

In 2013, the School had the following staff component:

Professor	1
Senior Lecturer	4
Lecturer	21

GRADUANDS

In 2013, the School graduated the following numbers:

PhD in CIS	4
M.A (Communication Studies)	73
B.A (Journalism & Media Studies)	197
B.A (Broadcast Production)	16

OTHER ACTIVITIES

In 2013, 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

9.00

COLLEGE OF ARCHITECTURE AND ENGINEERING

9.1 School of the Arts and Design

INTRODUCTION

The School of The Arts and Design (StAD) is a constituent School of the College of Architecture and Engineering (CAE), and comprises of four thematic areas as follows: graphic design, textile and fashion design, product and industrial design and, interior and landscaping,

PROGRAMMES OFFERED

In 2013, the School offered three degree programmes in: Bachelor of Arts in Design, Master of Arts in Design, and a PhD in Design with specializations in graphic design, interior design, fashion design, product design, and illustration.

ENROLMENT

In 2013, the School had an enrollment of:

Undergraduate	255
Masters	20
PhD	1

RESEARCH ACTIVITIES

In 2013, the following research was undertaken:

Looking, seeing and learning: the role of design in developing exhibition and display for museums	S. M Maina
Mainstreaming indigenous natural fibres for economic friendly African product design in Kenya: The case study of (Mugio) Triumfetta Macrophylla fibre.	S.M Maina and W. Gachigi
Effects of delay in re-development of occupied buildings	S.M Maina
	School of the Arts and Design and Italy Politecnico di Milano

INTERNATIONAL LINKS AND COLLABORATIONS

In 2013, the School had links with the following organizations:

Koszalin Technical University, Poland; Massachusetts College of Art and Design; Netherlands Imports and Exports Promotion Center.

STAFF

In 2013, the School had the following staff complement:

Senior Lecturer	2
Lecturer	7
Assistant Lecturer	1
Tutorial Fellows	3
Graduate Assistants	2
Chief Technologist	1
Senior Technologist	1

GRADUANDS

In 2013, the School graduated the following numbers:

Undergraduate	44
Postgraduate	1

OTHER ACTIVITIES

In 2013, a final year design student from the School showcased her final project to his Excellency the President Uhuru Kenyatta's during the Export Promotion Council's exhibition for the National Exporters Forum at KICC.



His Excellency President Uhuru Kenyatta inspects hyacinth furniture designed by a final year design student at the EPC sponsored National Exporters Forum, in June 2013.

9.2 School of the Built Environment

INTRODUCTION

The School offers a unique range of educational opportunities spanning the diverse range of professions involved in the planning, design, construction, development, costing, valuation and management of the environment.

The School caters for the needs of government, industry, local and international communities and professional practice by providing courses in architecture and design technology, construction management, quantity surveying, valuation and property management, planning, housing and urban management. The courses offered in the School embrace a diversity of subjects, the common theme running through them being the man-made physical environment and the exercise of human control over it.

The School comprises three Departments namely: Architecture & Building Science; Real Estate and Construction Management; and, Urban and Regional Planning

PROGRAMS OFFERED

In 2013, the school offered the following programmes:

- Bachelor of Arts (Urban and Regional Planning)
- Bachelor of Construction Management (BCM)
- Bachelor of Architecture (BAR)
- Bachelor of Real Estate (BRE)
- Bachelor of Quantity surveying (BQS)
- Master in Urban Management (MUM)
- Master in Architecture
- Postgraduate Diploma in housing administration
- Masters degree in Construction management
- Masters degree in Valuation & property management
- Diploma in Estate Agency & Property management
- Masters degree in Building management
- Masters degree in Housing administration
- Master of Arts (Planning)

ENROLLMENT

In 2013, the School enrolled the following numbers:

BArchitecture & Building Science	375
MArchitecture & Building Science	33
Bachelor of Quantity Surveying (BQS)	297
Bachelor of Real Estate (BRE)	304
Bachelor of Construction Management (BCM)	179
Diploma in Estate Agency & Property Management	13

Postgraduate Diploma in Housing Administration	38
Masters degree in Construction Management	31
Masters degree in Valuation & Property Management	15
Doctor of Philosophy (Ph.D)	3
Bachelor of Arts (Urban and Regional Planning)	240
Master of Arts (Planning)	70

INTERNATIONAL STUDENTS

In 2013, the School had an international student component of 4 students drawn from Tanzania, Sudan, Uganda and Malawi.

INTERNATIONAL LINKS AND COLLABORATIONS

In 2013, the School had the following links: Oslo School of Architecture; University of California; and, Earth Institute University of Columbia

PUBLICATIONS

Title/Name of the Article	Author/s	Name of Journal/Publication
Development of Disgust: effect of Delay in Re-Development of Occupied Buildings, a case study of ADD Building	Samuel M. Maina	Africa Habitat Review 7 (2013)
Participatory Development Using Devoled Funds: An attempt to develop public property via politics in Kenya	Muhammad A. swazuri	Africa Habitat Review 7 (2013)
Pathways in the implementation of National Spatial data infrastructure in Nigeria and Kenya	Maurice O. Oyugi	Africa Habitat Review 7 (2013)
Effects of the Public Procurement Oversight Authority Standard Tender Document on Procurement of Public Building Works in Kenya: A case of ministry of Public works managed Projects	Njeri wachira - Towey	Africa Habitat Review 7 (2013)
Perceptions of Land Conflicts with Special Reference to	Luke M. Obala	Africa Habitat Review 7 (2013)
Urban Street Design and Standards in Architecture; a case of mamlaka, Nyerere and State House Roads in the City of Nairobi	Robert Rukwaro	Africa Habitat Review 7 (2013)

STAFF

In 2013, the School had the following staff complement:

Professor	3
Assoc. Professor	11
Senior Lecturer	15
Lecturer	40
Assist. Lecturer	4
Tutorial Fellow	5
Graduate Assistant	4
Chief Technologist	1

GRADUANDS

Diploma in Estate Agency	11
B. A. Land Economics	3
Bachelor of Real Estate	65
Bachelor of Quantity Surveying	58
Bachelor of Construction Management	30
Bachelor of Architectural Studies	46
Bachelor of Architecture	47
B.A. Urban and Regional Planning	44
Postgraduate Diploma in Housing Administration	28
M.A. Construction Management	4
M.A. Valuation and Property Management	3
M.A. Urban and Regional Planning	9
M.A. Urban Management	1
Master of Architecture	1
Doctor of Philosophy	0

PAPERS PRESENTED IN CONFERENCES

Paper Presented	Conference	Presenter/Author
Planned-from-scratch New Cities in Africa: Issues for Discourse	4th Annual Eastern Africa Regional Exhibition and Workshop 2013, at ADD Building : date 26th – 31st August 2013	Alfred Omenya
Architecture and National Development: An appraisal of suitability of Contemporary Public Building Under Construction among sub-Saharan countries	4th Annual Eastern Africa Regional Exhibition and Workshop 2013, at ADD Building : date 26th – 31st August 2013	AK. Birabi and B. Nawangwe
Informality and Access to Urban Housing	4th Annual Eastern Africa Regional Exhibition and Workshop 2013, at ADD Building : date 26th – 31st August 2013	Arch.Prof. Anyamba T.J.C
Sustainability tools at the sub-national level: understanding what resources exist to help us plan our cities sustainably	4th Annual Eastern Africa Regional Exhibition and Workshop 2013, at ADD Building : date 26th – 31st August 2013	Oursler, Anna.LEED GA and research Affiliate
Development? Housing and Family culture in Nairobi	4th Annual Eastern Africa Regional Exhibition and Workshop 2013, at ADD Building : date 26th – 31st August 2013	Dr. Lydia W. Muthuma
Holistic Green building design in Nairobi	UN-Habitat conference on FINANCING GREEN BUILDING IN AFRICA 18th September 2013 at Strathmore University, Nairobi	Architect Musa Kimeu
Sustainable Building Design strategies in the tropics: the Case for East Africa	UN-Habitat conference on FINANCING GREEN BUILDING IN AFRICA 18th September 2013 at Strathmore University, Nairobi	Architect Musa Kimeu

9.3 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.

PROGRAMMES OFFERED

In 2013, the the School offered a five-year undergraduate study programme 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.

ENROLMENT

In the year under review, the School enrolled the following numbers:

BSC Electrical and Electronics Engineering	345
BSC Civil Engineering	165
BSC Mechanical Engineering	675
BSC Biosystem Engineering	278
BSC Geospatial	194
Master programme	198
Phd	17

INTERNATIONAL LINKS AND COLLABORATIONS

In 2013, the School had the following links: University of Namibia, Faculty of Engineering and Information Technology, African Materials Science & Engineering Network, (AMSEN), Involving four Universities i.e. University of Botswana, University of Namibia & Federal University of Technology-Nigeria (FUTA); National University of Science & Tech. Taiwan; Department of Environmental Health, Safety and Emergency Management (EHSEM) -Harvard University; Africa Biofuel and Emission Reduction (East Africa) Ltd); University of Siegen – Germany; and Food and soft laboratory, ETH Zurich, Department of health science Switzerland.

In addition the School had links with local organizations including: LG- Kenya Ltd, Export Promotion Council, Engineers Board of Kenya.

In 2013, the School had an international student component of 22.

GRADUANDS

In 2013, the School graduated the following numbers:

BSC Electrical and Electronics Engineering	86
BSC Civil Engineering	116
BSC Biosystem Engineering	34
BSC Geospatial	29
Master programme	21
Phd	3

PUBLICATIONS

In 2013, Faculty published as follows:

Wahome A. 2013 Performance characteristics of blended rice bran biodiesel in a diesel engine. International Journal of Engineering Science Invention. ISSN (Online):2319-6734, ISSN(Print):2319-6726. www.ijesi.org Volume 2 Issue 5\May 2013\PP:35-41. [http://www.ijesi.org/papers/Vol%202\(5\)/Version-3/F253541.pdf](http://www.ijesi.org/papers/Vol%202(5)/Version-3/F253541.pdf)

Kilonzi , J.C. and N.A Odero. 2013. A GA/IPSO based approach for system loss reduction and voltage profile improvement employing arithmetic crossover and mutation. International Journal of Engineering Science and Technology (IJEST) Vol.5 No 07

Musau P.M and N.A Odero. 2013. Solving the active distribution network reconfiguration (ADNR) problem taking into consideration a stochastic wind scenario and uncertainty by using HBFDE method. International Journal of Emerging Technology and Advanced Engineering. Volume 3, Issue 7

Musau ,P.M. and N.A Odeo, Mbuthia M.2013. Power loss reduction in the active distribution network by doubly fed induction generator (DFIG) placement and sizing using ordinary particle swarm optimization(PSO) and a hybrid of Genetic Algorithm (GA) and PSO (HGAPSO). International Journal of Emerging Technology and Advanced Engineering, Volume 3, Issue 7

Wahome , A. 2013 .Alternative diesel engine fuel from Kenyan Pishori rice bran. International Journal of Engineering and Science Invention (IJESI) [http://www.ijesi.org/papers/Vol%202\(8\)/Version-1/L0281075070.pdf](http://www.ijesi.org/papers/Vol%202(8)/Version-1/L0281075070.pdf)

Arato, S.S and Kaleche , O.V. 2013 . UHF(700 MHz) Spectrum band occupancy measurements, analysis and considerations for deployment of long term evolution(LTE) deployment. Kenya International Journal of Scientific & Engineering Research, Volume 4, Issue 11 ISSN 2229-5518

Kilonzi , J.C and Odero, N.A. 2013. Effects of distributed generation penetration on system power losses and voltage profiles. International Journal of Scientific and Research Publications (IJSRP) ISSN:2250-3153

Gitau, A.N. 2013. Optimizing the performance of a manually operated groundnut (Arachis hypogaea) decorticator. Scientific Research. Open Journal of Optimization. 2013,2: 26-32

Omuto CT, 2013. Evaluation of screening level technique (SLT) for pollutant removal in an engineered ecological system: a case study in Kenya. International Research Journal of Bioengineering and Biomedical Sciences, 1: 1-6.

Mulaku G. C. (2013) professionalism in GIS: International aspects of the certification debate, Journal of Geographic Information System, Vol.5, No.4, August 2013, pp.347-353[ISSN 2151 -1969].

PRESENTATIONS

Owalla F, and E. Mwangi . A color image watermarking technique resistant to affine geometric a. A paper presented at the IEEE AFRICON 2013 Conference, Mauritius, 9th - 12th September 2013

Dulo S.O. Mainstreaming climate change into regional trade and integration. A paper presented at the workshop on Hydrological and Regional Climate Modeling Tools for Climate Change Risk Management in the Nile Basin, Cairo, Egypt, 22nd September, 2013 to 26th September

Odera B O. A preliminary study of higher order platinum-based alloys for high temperature applications. Proceedings of Precious Metals 2013 Conference, the Precious Metals Development Network, Advanced Metals Initiative, Southern Africa Institute of Mining and Metallurgy, October 14 – 16, 2013, Cape Town, South Africa, pp 259-274.

Siriba, D. N. and Mwenda, J. N.; Towards Kenya's profile of the land administration domain model (LADM). Paper presented at the 5th Land Administration Domain Model Workshop, 24 - 25 September 2013, Kuala Lumpur, Malaysia.

Karanja, F.N.: The spatial dimension to the effective disbursement by financial intermediaries of the women enterprise fund. Paper presented at the Regional Conference of the International Network of Women Scientists and Engineers (INWES), "Innovative Programs and Strategies to Increase the number and Career Successes of Women in Science, Technology, Engineering & Mathematics (STEM)" 19-21 November 2013, Nairobi, Kenya.

Nthuni, S. M.; Heiskanen, J.; Karanja, F.N.; Thijs, K. W.; Pellika, P.: Spectral discrimination of indigenous forest tree species based on airborne AISA Eagle VNIR data in the Taita Hills, Kenya. Poster Presented at the 8th EARSEL Imaging Spectroscopy Workshop in Nantes, France 8th - 10th April 2013.

John P. O. Obiero, , Lawrence O. Gumbe, Pedotransfer Functions in Surface Flow Simulation

Omuto CT, 2013. Evaluation of Screening Level Technique (SLT) for pollutant removal in an engineered ecological system: a case study in Kenya. *International Research Journal of Bioengineering and Biomedical Sciences*, 1: 1-6.

Obiero JPO, Gumbe LO, Omuto CT, Agullo, JO. 2013. Development of Pedotransfer Functions for Saturated Hydraulic Conductivity. *Open Journal of Modern Hydrology*, 3: 154-164. Paron P, Olago DO, Omuto CT. 2013: Kenya: A Natural Outlook: Geo-Environmental Resources and Hazards. Elsevier, Netherlands.

F. Gichuki, 2013: Water resources management challenges and implications for a BSc in Water Resource Management Curricular. Paper presented at the curricular Development Workshop held in Nairobi, April 12th. 2013

Gichuki, F. N., 2013: Water Conveyance Study: Ahero Irrigation Scheme Case Study. A report submitted to Mwea Irrigation Agricultural Development.

Gichuki, F. N., 2013: Water Conveyance Study: Bura Irrigation Scheme Case Study. A report submitted to Mwea Irrigation Agricultural Development.

Gichuki, F. N., 2013: Water Conveyance Study: Mwea Irrigation Scheme Case Study. A report submitted to Mwea Irrigation Agricultural Development.

Gichuki, F. N., 2013: Water Conveyance Assessment in Ahero, Bura and Mwea Irrigation Schemes. A paper presented at the NIB annual research workshop held at the school of Monetary Studies, Nairobi.

Gichuki, F. N. "Promoting the Resilience of Dryland Communities through Policy and Practice Change in the Horn and East Africa" organized by REGLAP in held on February 4th 2013 at the ILRI campus Nairobi.

RESEARCH ACTIVITIES

In 2013, staff were involved in research that included: Development of recycle friendly cast aluminum alloys for automotive applications, Development of key performance indicators (KPIs) for industrial safety in paint manufacturing firms in Kenya, Assessment of stone crushing characteristics and optimum dynamical and structural design of a stone crusher for small scale entrepreneurs, Bio energy – agro-food synergies: an educational models for universities in Africa, Water harvesting for sustainable environment, food security and community development in Kenya. (Funds from UNESCO), Water harvesting and greenhouse farming for enhanced household, food and nutritional security (WHENFS) (funds from NCST), Mini hydropower in Githagara Nyeri County funded by CDTF

TITLE OF RESEARCH PROJECT	YEAR	RESEARCHERS
Bio Energy – Agro-food Synergies: An Educational Models for Universities in Africa	2013	A. N. Gitau, D. O. Mbuge
Water Harvesting For Sustainable Environment, Food Security and Community Development in Kenya. (funds from UNESCO) (In progress)	2013	A.N. Gitau
Water Harvesting and Greenhouse Farming for Enhanced Household, Food and Nutritional Security (WHENFS) (funds from NCST).	2013	A.N. Gitau
Post-harvest control of aflatoxin contamination in stored maize using super absorbent polymers (STTPs) in improved and affordable design of storage structures. (funds from NCST) (In progress)	2013	D. O. Mbuge
A Three Dimensional Environmental Simulation Model of a Greenhouse System (PhD Thesis)	2013	J. O. Agullo
Effective Process Design Model For Sorghum Bi-oil Production And Conversion To Biofuel (In progress)	2013	Joseph Waweru
Mini hydropower project in Siaya County (In progress)	2013	Orodi Odhiambo
Mini hydropower in Githagara Nyeri County funded by CDTF (In progress)	2013	Orodi Odhiambo

PUBLICATIONS (BOOKS/JOURNALS)

TITLE	YEAR	AUTHOR
Optimizing the Performance of a Manually Operated Groundnut (<i>Arachis hypogaea</i>) Decorticator. Scientific Research. Open journal of optimization. 2013,2: 26-32	2013	A. N. Gitau
Open Journal of Modern Hydrology, July 2013 (can google to get URL)-published	2013	John P. O. Obiero
A Natural Outlook – Chapter 5, Elsevier Publishers, Netherlands-in progress.	2013	John P. O. Obiero

CORPORATE SOCIAL RESPONSIBILITY ACTIVITIES

- Environmental and Biosystems Engineering Students open day held on 20th April 2013 at upper Kabete Campus. (photos attached)
- Represented the School of Engineering at the Annual Tree Planting Event at the University Farm Kanyariri
- Ploughing contests for seedbed preparation for improved agricultural production through the Kenya Ploughing Organization (KPO)
- Environmental And Biosystems Engineering Students Association EBESA visited Happy Life Children’s Home-Ruaraka

OTHER ACTIVITIES

- Dr. A. N. Gitau participated in evaluation of proposals for funding in GEF SGP Baseline Assessment in Laikipia County.
- Mr. Januarius Ondiek Agullo- recruited by Training Centre in Communication (TCC) to train participants on the use of R statistical package for data analysis. (2013)
- J. P. Obiero Convened an annual general meeting (AGM) for the Nairobi Branch of the Kenya Ploughing Organization, a subcommittee of the Agricultural Society of Kenya (ASK)
- J. P. Obiero participated at the AGM for the National office of the Kenya Ploughing Organization (KPO) at the Show Ground, Nairobi.
- J. P. O. Obiero Organized Nairobi Branch Ploughing contest coordinated by the Agricultural Society of Kenya (ASK-Nairobi branch) in which the department was a participant.
- J. P. O. Obiero Participated in the planning of the 2012 Nairobi International Trade Fair (NITF) as an executive committee member.

FINANCIAL REPORT

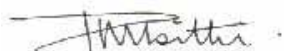
Statement of Financial Position as at 30th June 2013

ASSETS	Note	2013 Ksh	2012 Ksh
Non Current Assets			
Property, Plant and Equipment	7	94,102,317,145	93,889,435,264
Investments	8	95,382,576	107,812,008
		94,197,699,721	93,997,247,272
Current Assets			
Inventories	9	285,843,571	285,063,957
Trade, Receivables and Debit Balances	10	4,647,673,547	4,139,388,731
Short Term Deposits	11	3,008,975,735	2,184,206,744
Cash and Cash Equivalents	12	2,453,912,155	1,732,516,514
		10,396,405,008	8,341,175,946
TOTAL ASSETS		104,594,104,730	102,338,423,218
FUNDS AND LIABILITIES			
		(180,784,880)	(637,010,909)
Net funds from IGUs and parallel programs		4 3,826,766,039	3,432,240,986
Special Accounts and Grants		6 1,118,774,898	1,153,824,826
General Fund	3(a)	94,449,646,761	94,379,409,292
Capital Reserves	3(b)	471,998,809	266,525,431
Trust and Endowment funds	5	267,658,519	250,756,806
Endowment for General Purposes	2(b)	16,181,339	16,181,339
Special Capital Development	2(c)	912,753,487	771,070,420
Revenue Reserves		793,156,871	580,119,805
		101,856,936,723	100,850,128,904
Current Liabilities			
Trade and Other Payables	13(a)	1,913,335,216	1,277,272,385
Bank OverDraft	13(b)	823,832,790	211,021,929
2,737,168,007 1,488,294,314		47,203,511	20,000,000
TOTAL FUNDS AND LIABILITIES		104,594,104,730	102,338,423,218
		2,393,790,783	1,768,261,467

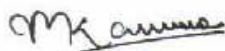
G.A.O.MAGOHA, IOM, M.B.B.S. (Lagos), FRCS, FWACS, FICS, FABI, MSIC, FMCS (Urol.).
Vice-Chancellor



P.M.F. MBITHI B.V.M., M.Sc. (Nrb) M.V.Sc. (Saskatchewan) Ph.D (Nrb)
Deputy Vice-Chancellor - (Administration & Finance)



M.KARUE, B.COM., CPA(K)
Finance Officer



Statement of Comprehensive Income for the Year Ended 30th June 2013

Statement of comprehensive Income for the year ended 30th June 2013		2013	2012
INCOME	Note	Ksh	Ksh
Capitation Grant	14(i)	4,626,621,644	4,586,621,643
Special Grant	14(ii)	1,146,200,000	0
Tuition and other fees	14(iii)	599,183,140	479,996,449
Accreditation fees	14(iv)	940,000	900,000
Other services rendered:	14(v)	34,362,611	50,761,120
Accommodation , Catering and other income	14(vi)	696,831,429	607,492,967
Transfer from IGUs for specific purposes	14(vii)	3,374,549,972	3,064,698,716
		10,478,688,796	8,790,470,896
EXPENDITURE			
Academic Departments	15(i)	6,048,254,427	4,722,124,556
Administration and Central Services	15(ii)	2,195,571,080	1,687,756,750
Academic services	15(iii)	217,959,498	227,634,999
General educational services	15(iv)	681,101,874	584,693,905
Maintenance of premises	15(v)	569,034,193	480,791,287
Staff and students facilities and welfare	15(vi)	351,237,147	303,394,569
Welfare authority (Catering services)	15(vii)	186,440,426	216,239,159
Miscellaneous expenditure	15(viii)	16,053,084	21,529,513
		10,265,651,730	8,244,164,738
SURPLUS FOR THE YEAR		213,037,066	546,306,158
Accumulated Surplus brought forward		580,119,805	33,813,647
Accumulated Surplus Carried forward		793,156,871	580,119

Statement of Changes in Equity for the Year Ended 30th June 2013

	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
BALANCE AS AT 1/7/2011	3,220,693,905	716,443,807	37,468,551,692	252,925,674	439,013,939	16,181,339	260,655,840	33,813,647	42,408,273,344
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	3,432,240,986	1,153,824,826	94,379,409,292	250,756,806	771,070,420	16,181,339	266,525,431	580,119,805	100,850,128,904
BALANCE AS AT 1/7/2012	3,432,240,986	1,153,824,826	94,379,409,292	250,756,806	771,070,420	16,181,339	266,525,431	580,119,805	100,850,128,904
SPECIAL RECEIPT FOR CAPITAL DEVELOPMENT					141,683,067				141,683,067
SURPLUS FOR THE YEAR			0					213,037,066	213,037,066
CAPITAL GRANTS FROM DONORS			27,571,808						27,571,808
CAPITAL DEVELOPMENT RECEIPT			71,149,057						71,149,057
RESEARCH GRANT RECEIPTS		2,229,796,600							2,229,796,600
RESEARCH GRANT EXPENDITURE		(2,264,846,529)							(2,264,846,529)
DEPRECIATION ON RESEARCH GRANTS ASSETS			(28,483,396)						(28,483,396)
TRUST FUND RECEIPTS				73,516,910					73,516,910
TRUST FUND EXPENSES				(56,615,197)					(56,615,197)
INCREASE IN IGU FUND	394,525,053								394,525,053
INCREASE IN CAPITAL RESERVE							205,473,378		205,473,378
BALANCE AS AT 30/6/2013	3,826,766,039	1,118,774,897	94,449,646,761	267,658,519	912,753,487	16,181,339	471,998,809	793,156,871	101,856,936,722

Statement of Cash Flows for the Year Ended 30th June, 2013

Statement of Cash Flows for the year ended 30th June, 2013		2013	2012
	Note	Ksh	Ksh
Cash Inflows from Operating activities			
General Revenue Surplus/ (Deficit) for the year		213,037,066	546,306,158
Adjustment for Depreciation	7	532,427,627	226,551,487
Operating surplus/(deficit) before working Capital		745,464,693	772,857,644
Changes in Working Capital			
Net funds for Income Generating Units		394,525,053	211,547,081
Trust and Endowment Funds	5	16,901,713	(2,168,868)
Overspent and claimable from Donors	6	17,511,520	2,130,948
Proceeds from sale of Property and Equipment		0	0
Increase in Special Capital Development Fund	2 (c)	141,683,067	332,056,481
(Increase)/Decrease in Stocks and Stores	9	(779,614)	(44,423,564)
(Increase)/Decrease in Debtors	10	(508,284,816)	(180,784,880)
Increase/(Decrease) in Creditors	13	1,248,873,693	266,087,018
Net Cash Flow from Operating Activities		2,055,895,309	1,357,301,860
Cash Outflow from Investment Activities			
Expenditure from Special Accounts and Grants	6	2,264,846,529	1,860,801,394
Purchase of Non current Assets	7	578,483,701	599,075,535
Increase/(Decrease)in Investments	8	12,429,432	3,965,095
		2,855,759,662	2,463,842,023
Cashflow from Financing Activities			
Grants and other income allocated for Capital Fund	3	27,571,808	46,273,913
Adjustment for Capital Reserves		71,149,057	47,203,511
Receipts for the year from Special Accounts and Grants	6	2,247,308,120	2,300,313,360
		2,346,028,985	2,393,790,783
Net Increase/(Decrease) in Cash & Cash Equivalents		1,546,164,632	1,287,250,620
Analysis of Balances of Cash and Cash Equivalents			
Cash and cash equivalent at start of the year		3,916,723,258	2,629,472,638
Increase(Decrease) in cash and cash equivalents		1,546,164,632	1,287,250,620
Cash and cash equivalents at end of year	3(c)	5,462,887,890	3,916,723,258



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.

Annual **Report**
2013

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