

Kenya National Academy of Sciences



Profiles of Fellows and Members

**SECOND
EDITION
2022**

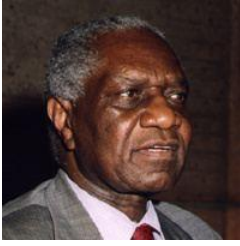
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PREVIOUS OFFICE BEARERS

OFFICE BEARERS: 1983 – 1992



Prof. Thomas R. Odhiambo,
Chairman



Prof. Canute P. M. Khamala,
Hon. Secretary



Dr. Benjamin E. Kipkorir,
Hon. Treasurer

OFFICE BEARERS: 1992 – 2002



Prof. Shem O. Wandiga,
Chairman



Prof. Ogana Wandera,
Hon. Secretary



Prof. Jackton B. Ojwang,
Hon. Treasurer

OFFICE BEARERS: 2002 – 2011



Prof. Joseph O. Malo,
Chairman



Prof. Felix M. Luti,
Hon. Secretary



Prof. Dominic W. Makawiti,
Hon. Treasurer

CURRENT OFFICE BEARERS: 2011 – 2022



Prof. Raphael M. Munavu,
Chairman



Prof. Ratemo W. Michieka,
Hon. Secretary



Prof. Josephine W. Ngaira,
Hon. Treasurer

Kenya National Academy Of Sciences Governing Council: 2011 To Date

Prof. Raphael M. Munavu	-	Chairman
Prof. Ratemo Michieka	-	Hon. Secretary
Prof. Josephine K. Ngaira	-	Hon. Treasurer
Prof. Paul O. Baki	-	Hon. Asst. Treasurer
Prof. Kenneth M. Mavuti	-	Hon. Asst. Sec. Biological Sciences
Prof. Daniel C. Rotich	-	Hon. Asst. Sec. Humanities & Social Sciences
Prof. Julius M. Mwabora	-	Hon. Asst. Sec. Chemical & Physical Sciences
Prof. Bernard O. Aduda	-	Hon. Editor-in-Chief
Prof. Waceke Wanjohi	-	Asst. Editor-in-Chief
Prof. Joash R. Aluoch	-	Member
Prof. Mbaabu Mathiu	-	Member
Prof. Kenneth A. Kaduki	-	Member
Principal Secretary, MoEST	-	Ex-Officio
Director General/C.E.O, NACOSTI	-	Ex-Officio
Administrator, KNAS	-	Ex-Officio

PART 1:

INTRODUCTION

1.1 FOREWORD

The Kenya National Academy of Sciences (KNAS) is a learned, non-political institution, which was founded on 2nd November 1983. The main function of KNAS is to cooperate and collaborate with the Government of Kenya, other scientific organizations, the scientific community and the general public in promoting the applications of scholarly/scientific knowledge and technology for national development.

KNAS promotes all fields of sciences, including humanities and technology. The major objectives and purposes for which the Academy is established are:

- i. To promote the advancement of scientific and technological knowledge, establish and enhance standards of scientific and technological achievements in Kenya and to recognize outstanding contributions to ST&I.
- ii. To establish and maintain association and relations between Kenyan scientists and the international scientific community.
- iii. To publish and assist in the dissemination of scientific knowledge.
- iv. To cooperate with the National Commission of Science, Technology and Innovation (NACOSTI) in the formulation of policies and programmes designed to encourage the development and application of science and technology for national development.
- v. To provide sound scientific advice to Government for effective policy formulation.
- vi. To undertake all such other activities as may be consistent with the objectives of the Academy and in alignment with the constitution (2010) and Vision 2030.

The above objectives are realized through a wide range of activities such as publications, scientific meetings, public lecture series, Kenya Science Congress, research projects and consensus studies.

The past three decades have witnessed significant changes in the relationships and interactions between science, society and development. Notwithstanding these achievements, new challenges have emerged, which require innovative solutions by all professions including engineering, health, industrialization, agriculture and ICT.

Membership of the KNAS is open to Kenyan citizens of specified academic standing through application and subsequent election in accordance with the by-laws of the Academy. Election is guided by an evaluation process based on contribution of new knowledge generated through research Fellowship and Membership is specifically conferred on persons who have made outstanding contribution in the field of science, technology and innovation. Honorary Fellowship is conferred on persons who would otherwise not qualify for election but who have nevertheless made outstanding contribution in furtherance of science and technology. Fellowship and membership to the Academy is a mark of scientific distinction and integrity.

KNAS subscribes, on behalf of the Kenyan scientific community, to the following international organizations:

- i. The International Science Council (ISC)
- ii. The International Foundation for Science (IFS)
- iii. Network of African Science Academies (NASAC)- Member

Through these collaborations, Kenyan researchers have received funding in support of research, travel, meetings, conferences and participation at international fora. This publication is the *second edition* of the “*Profiles of Fellows and Members*” of the KNAS. The publication provides essential background information (training, competencies, experiences, research output) for each fellow and member. The information provided should be of use to all stakeholders who wish to engage with fellows/members of various categories, skills and competencies. This publication has four key messages.

First, Kenya is endowed with a rich and variegated ST&I knowledge base encompassing all critical sectors of the national economy.

Second, the number of women specialists in critical sectors is relatively low. Consequently, there is need to increase the number of female members and fellows in the Academy.

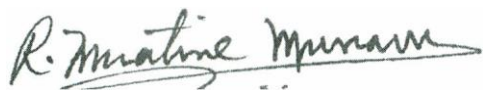
Third, most specialists are based in research and university institutions. Hence, there is need for the private sector to invest more in knowledge development and research.

Fourth, there are relatively fewer fellows from the social disciplines and humanities, yet these sectors play a critical role in socio-economic development.

Taking into consideration the above challenges, the KNAS has established the Young Academy to mentor emerging scientists. The Young academy, which was launched on 3rd February 2014, has a membership of 30, under the patronage of selected Fellows of the Academy. It is expected that this publication will be the platform for dialogue on capacity development in critical sectors of the economy and leadership. Addressing the

identified challenges will enable Kenya move forward to a more inclusive nation and promote shared prosperity by all. It is expected to trigger public discourse on the need to invest on research and development in order to generate knowledge for driving socioeconomic development. The anticipated users of the publication are policy makers, and those in the private sector. It also includes those who wish to seek scientific advice on specific items. It is also useful to Government agencies, development partners at both the national and county government levels.

On behalf of the Governing Council, I wish to extend my sincere gratitude to the Cabinet Secretary, Ministry of Education (MoE) and the Principal Secretary, Ministry of Education (MoE) for their guidance and funding towards this project. I also wish to thank the Director General, National Commission for Science, Technology and Innovation (NACOSTI) and the Chief Executive Officer, National Research Fund (NRF) for providing funding, office space and related services for the Academy's Secretariat.



Prof. Raphael M. Munavu
Chairman
Kenya National Academy of Sciences

PART 2:

FOUNDING FELLOWS



PROF. ODHIAMBO, R. THOMAS

FOUNDING FELLOW

FKNAS/001/1986

B.A., M.A., PhD. (Makerere, Cambridge), FTWAS, FAAS, FANS, EPAS, FINSA. Prof. Odhiambo was born in Mombasa in 1931. After his early education at the Alliance High School, Prof. Odhiambo proceeded to Makerere, and finally to Cambridge University where he obtained his B.A., M.A. and Ph.D. degrees. He joined the University of Nairobi in 1965 where he taught Entomology for 10 years before taking an early retirement to devote his full research career at the International Centre of Insect Physiology and Ecology (ICIPE). He is the founder of ICIPE and was its Director since its foundation in 1970. Prof. Odhiambo was a member of many national and international scientific societies. He was a Fellow of the Italian National Academy of Sciences (the “Academy of the Forty”), Fellow of the Pontifical Academy of Sciences, Foreign Fellow of the Indian National Science Academy, Vice President and Founder Fellow of the Third World Academy of Sciences, and President and Founder Fellow of the African Academy of Sciences. He was the Chairman of The Kenya National Academy of Sciences (KNAS). Prof. Odhiambo published some 110 scientific papers and books, mainly in the field of Comparative Insect Endocrinology, and more specifically in the area of Hormonal Control of Insect Reproduction. Since early 1970s, he endeavoured to elucidate the sequence and regulation of insect behaviour and development phenomena. At the beginning of his career, he became an authority of the Taxonomy and Biogeography of Plant Bugs. Other than these significant scientific contributions, Prof. Odhiambo took special interest in scientific and industrial policy particularly as it affected the Third World and was instrumental in developing strategies for institutional development and research management. Prof. Odhiambo passed on in the year 2003 and is post-humously honored.



PROF. ABDULAZIZ, HASSAN MOHAMED

FOUNDING FELLOW

FKNAS/002/1986

B.A. (Hons), M.A., A.C. Post. Dip., PhD. (London).

Prof. Abdulaziz was born in 1932 in Mombasa where he also received his early education. He joined the School of Oriental and African Studies of the University of London and was awarded a B.A. (Hons) degree in Classical and Modern Arabic, and an M.A. degree in Swahili. He then joined the University College, London where he obtained a PhD degree. He was appointed Lecturer and Senior Lecturer in Dar-es-Salaam University College between 1967 and 1970. In 1970 he

transferred to the University of Nairobi as a Senior Lecturer becoming full Professor in 1978. He was variously Chairman of the Department of Linguistics and Dean of Faculty of Arts between 1972 and 1983, and on a number of occasions acted as Principal of the College of Humanities and Social Sciences. Prof. Abdulaziz has many publications in the area of language and linguistics. He was a member of many major international linguistics associations, and served on the editorial boards of a number of journals. He was appointed visiting professor or scholar in numerous universities in America, the Middle East, Europe and Africa and attended various international conferences in different parts of the world. He was Chairman of the Social Sciences Committee of the National Commission for UNESCO, and Member of the National Culture Council.



PROF. GITHINJI, MWANGI PHILLIP

FOUNDING FELLOW

FKNAS/003/1986

BSME (Purdue), MS, ME (Caltech), PhD. (Nairobi), R Eng, FIEK.

Prof. Githinji was born in Kamacharia Location, Murang'a County in 1936. He attended Kagumo High School, Makerere College, Morgan State College, Purdue University (BSME-1960), California Institute of Technology (MS-1961, ME-1963) and did research at the University of Nairobi (PhD-1975). He was a Professor of mechanical engineering at the University of Nairobi where he was a member of staff since August 1965. He was nominated for the Governor's Prize for the best second year student at Makerere College (1957-1958), and African-American Institute Scholar (1958-1959); and was admitted to Tau Beta Pi (Engineering Honour Society in the USA) in 1960. He is a registered Engineer in Kenya and a Fellow of the Institution of Engineers of Kenya (IEK). Prof. Githinji has done research and published in the fields of boiling heat transfer, drying (heat and mass transfer) of agricultural products, energy resources and environmental impacts and engineering education. He has served extensively in many national and international technological, education and research council/boards including chairmanship of the Industrial Science Advisory Research Committee and the Kenya Industrial Research and Development Institute (KIRDI).



PROF. GOMBE, SAMSON

FOUNDING FELLOW

FKNAS/004/1986

BSc. Vetmed (London) M.R.C.V.S. (UK), PhD (Cornell), FTWAS, FAAS.

Prof. Gombe was born in Seme, Kisumu District in 1938. He was educated at Maseno School, Makerere College (1958-1960), London University (1961-1967) and Cornell

University (1969-1972). His research interest was on aspects such as malnutrition, mineral deficiencies, adverse environmental and parasitic infections that may cause infertility. He demonstrated that many of these factors (including trypanosomiasis) impair reproduction by damaging certain areas of the brain. He examined male fertility and how it could be controlled for family planning purposes. Long-term safety of contraceptive drugs was his special concern. Prof. Gombe lectured at the Department of Animal Physiology, University of Nairobi from the year 1968. He published over 60 scientific papers, mainly in the area of reproductive physiology and endocrinology. He was a member of 12 national and international scientific organizations. He was a Fellow of the Third World Academy of Sciences. He was the Secretary and Founder Fellow of the African Academy of Sciences. He was the Director of Reproductive Biology Unit, a constituent of the National Centre for Research in Reproduction which he helped to found. Prof. Gombe passed on in the year 2008 and is post-humously honored.



PROF. KASILI, GEORGE EDWARD

FOUNDING FELLOW

FKNAS/005/1986

MB ChB. (E.A), M.D. (Nairobi), F.R.C Path (UK).

Prof. Kasili was born in Bukusu, Bungoma District in 1942.

After his early education at Friends School Kamusinga and Alliance High School he proceeded to Makerere University College in 1963 where he trained in medicine. He obtained his MB ChB. degrees in 1968, and joined the Ministry of Health where he worked as a doctor between 1969 and 1972. He did his postgraduate professional training in Hematology at Glasgow University between 1973 and 1974 under WHO fellowship and was a Fellow of the Royal College of Pathologists (F.R.C. PATH). He obtained his M.D. degree at the University of Nairobi in 1980 on the topic of "Leukaemia in Kenya". Prof. Kasili had wide consultancy and administrative experience on national and international bodies, and had attended many conferences and symposia at which he presented research papers. His researches were largely on blood diseases, particularly cancers and haemorrhagic disorders of which he was one of the few leading authorities in Kenya. Prof. Kasili published consistently since 1969 and had over 50 papers published in various journals. Prof. Kasili passed on in the year 2009 and is post-humously honored.



PROF. KHAMALA, P.M. CANUTE

FOUNDING FELLOW

FKNAS/ 006/1986

BSc. (Liverpool), PhD. (E.A.), FRES.

Prof. Khamala was born in Bunyala Location, Kakamega County in 1938. He attended St Peters, Mumias and St. Mary's Yala, before proceeding to Makerere University College for his 'A' level studies. He attended the University of Liverpool in the United Kingdom, where he was awarded a B.Sc. Degree in Botany and Zoology in 1965. He graduated with the Ph.D. degree in systematic entomology in 1968 at the University of East Africa. He joined the staff of the Department of Zoology of the Nairobi University College in 1966 where he was successively a Research Assistant, Lecturer, Senior Lecturer, Associate Professor and Professor of Zoology. Besides his career, he was the Secretary of the Kenya National Academy of Sciences, 1983-1986. He devoted much of his professional career, at first, to the study of Insect Vectors of Diseases including *Culicoides* and mosquitoes and later insect pests of cereal crops, grain legume and vegetables. He has published about 35 scientific articles and books related to pest and vector control, insect taxonomy and pest management.



DR. KIPKORIR, E. BENJAMIN

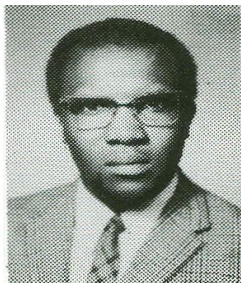
FOUNDING FELLOW

FKNAS/007/1986

B.A. (Makerere), PhD. (Cambridge).

Dr. Kipkorir was born in Elgeyo-Marakwet District in 1939. He received his early education at the Alliance High School before proceeding to Makerere University College. Upon obtaining his B.A. degree, he joined the then Sirikwa County Council as Deputy County Clerk. In September 1966, he proceeded to Cambridge University for his post-graduate studies, and graduated with a Ph.D. degree on a thesis on the Alliance High School and the Making of an African Elite in Kenya in 1970. He returned to Kenya in December 1969, joining the Department of History at the University College, Nairobi, first as a Special Lecturer, becoming a full Lecturer in January 1970. He rose to the rank of Senior Lecturer at the Department in 1973 and was appointed Director of the Institute of African Studies in September, 1977, a post he held until September, 1983 when he was appointed Chairman of Kenya Commercial Bank. Before Dr. Kipkorir moved from active academic life to enter the private sector, he served on several panels and bodies, notably the Armed Forces Pay and Allowances Review Board and the Presidential Working Party on the Second University. He served also as a Director and later Chairman of the Industrial Development Bank. Dr. Kipkorir had a record of many publications including *The Marakwet of Kenya* which was published in 1973. He also served as the Treasurer of The

Kenya National Academy of Sciences. Dr. Kipkorir passed on in the year 2015 and is post-humously honored.



PROF. KOKWARO, ONGAYO JOHN

FOUNDING FELLOW

FKNAS/008/1986

BSc. (Addis Ababa), MSc., PhD. (Uppsala), FLS.

Prof. Kokwaro was born in Gem, Siaya District in 1940. After his early education in Kisumu and at Bungoma Missionary College in Uganda. He joined Addis Ababa University where he studied for a B.Sc. degree in Agriculture. He was awarded a Swedish Government postgraduate scholarship in 1966 and joined the University of Uppsala where he undertook research projects in systematic botany for both his M.Sc. and Ph.D. degrees. He returned to Kenya briefly in 1968 for his field work, and joined the teaching staff of the Department of Botany at the University of Nairobi. He was a member of many national and international scientific organizations, including being the Chairman of the East African Natural History Society (founded 1909), Fellow of the Linnean Society of London (F.L.S.), member of the World Health Organization Steering Committee and Research on Plants for Fertility Regulation. Prof. Kokwaro's research interest was on systematic and economic botany, particularly on East African plants. He had published over 40 publications including seven internationally recognized and read books. Included among his books, are four on the Flora of Tropical East Africa, Classification of East African Crops and the world famous Medicinal Plants of East Africa. The use of different *May tenus* species in traditional medicine as a cure for leukemia and other types of cancer in Kenya was first reported by Kokwaro in one of his books. Maytansine, a cancer drug was later isolated from the same plants in the United States. Prof. Kokwaro passed on in the year 2019 and is post-humously honored.



PROF. MALO, OTIENO JOSEPH

FOUNDING FELLOW

FKNAS/009/1986

MSc. (Moscow), PhD. (Brandels), M. Inst. P.

Prof. Malo was born in Kano, Kisumu County in 1941. He received his early education at the Friends High School, Kamusinga before being awarded a U.S.S.R. scholarship to study in Moscow. On his return from studies in the USSR in 1968, he joined the Department of Physics, University of Nairobi. He rose through the ranks to his current position of Professor of physics. He was very active in curriculum development within the Department of Physics and has taught most

of the undergraduate and postgraduate basic and specialized courses. His research interest include: theoretical studies in plasma, solid state, statistical and mathematical physics, quantum chemistry, energy and transportation. Prof. Malo is a member of the Institute of Physics of the United Kingdom (M.Inst.P.). He has published a considerable number of scientific papers in journals of international repute and also participated and presented papers in many national and international meetings on science and technology. For approximately two years, he was consultant for UNESCO Regional Office for Science and Technology in Africa (UNESCO-ROSTA) in the basic sciences. He was the Coordinator of the Physics Sub-network of Scientific and Technological Institutions (ANSTI). He is the founder member and current Chairman of the Kenya National Association of Physicists (KNAP). He is also a member of the National Commission of Science, Technology and Innovation Committee on Application of Nuclear Science and Technology (CoANST) and immediate past Chairman of the Kenya National Academy of Sciences (KNAS).



PROF. MATI, KIMANZI JAPHETH

FOUNDING FELLOW

FKNAS/ 010/1986

MB ChB. (E.A.), M.D. (Nairobi), FRCOG.

Prof. Mati was born in Migwani Location, Kitui County in 1938. He attended Alliance High School before proceeding to Makerere University College where he was awarded M.B. and Ch.B. degrees in medicine and surgery in 1965. After his postgraduate professional training in Glasgow and London, he joined the Department of Obstetrics and Gynecology of the University of Nairobi in 1970. He served as a full Professor and Chairman of the Department of Obstetrics and Gynecology at the University of Nairobi. To date over 50 specialists in obstetrics and gynecology have trained under his tutelage. He was a member of the Kenya Obstetrical and Gynecological Society, editor of the Journal of Obstetrics and Gynecology of Eastern and Central Africa and Editor-in-Chief of the Kenya Journal of Sciences. He served on various national and international professional committees. His main research interest is in aspects of Reproduction; and in 1978 he played a major role in the establishment of the National Centre for Research in Reproduction (NCRR) of which he served Chairman since its inception. He has published over 70 papers.



PROF. MUGERA, MUNENE GERALD

FOUNDING FELLOW

FKNAS/011/1986

Dip. Vet. Sc. (E.A), MSc., PhD. (Michigan State University).

Prof. Muger was born in Inoi, Kirinyaga District in 1934. After his early education at the Alliance High School he entered Makerere University College in 1954 where he obtained a Diploma in Veterinary Science. He spent 1961 to 1965 at the Michigan State University for his M.Sc. and Ph.D. degrees. He joined the University of Nairobi, Department of Veterinary Pathology and Microbiology in 1965 and rose to be appointed Professor and also Dean of the Faculty in 1971. He did extensive work on the causes of cancer in animals; and on the toxic and medicinal plants in East Africa. He was the first scientist to demonstrate that some toxic plants contain chemicals capable of inducing cancer of the liver and kidney. Prof. Muger contributed a lot to the knowledge about the causes of cancer and in pathology of diseases of domestic animals. He published over 60 papers in many international journals and one text book. Prof. Muger passed on in the year 2019 and is post-humously honored.



PROF. MUTERE, FESTO ABBY

FOUNDING FELLOW

FKNAS/012/1986

BSc. (Hons), Ph.D, Dip.ED (E.A).

Prof. Mutere was born at Musanda, Kakamega District in 1929. He received his early education at Kakamega and Alliance high schools, before proceeding to Makerere College in Uganda where he received his diploma in Education in 1953. He was admitted to the University of Durham in England where he studied and was awarded B.Sc. (Hons) degree in Zoology in 1962. He later joined Makerere University College where he undertook postgraduate studies in Zoology and was awarded a Ph.D. degree in 1964. He continued lecturing in Zoology at Makerere until 1969 when he was transferred to the University of Nairobi, Zoology Department. Prof. Mutere held many senior positions at the University of Nairobi including the position of Deputy Vice Chancellor (in charge of Academic Affairs). He was a member of many scientific societies. He was the Vice Chairman of The Kenya National Academy of Sciences (KNAS). Prof. Mutere's Ph.D. thesis elucidated on the biology of the African straw-coloured fruit bat, *Eidolon heluum* Kerr. Among other findings of interest was the unexpected delayed implantation in this tropical/equatorial fruit bat. Such a phenomenon was hitherto only associated with species of the temperate climates. This study led on to other related studies on the tropical and equatorial bat fauna centering on their reproductive ecology. Over 20 publications resulted from this. Prof. Mutere was the Chairman of the Board of Management of the Kenya Marine and Fisheries Research Institute, a Government research institute that caters for all research activities in fish and hydrobiology in Kenya since 1979. Prof. Mutere passed on in the year

2010 and is post-humously honored.



PROF. OMINDE, HONGO SIMEON

FOUNDING FELLOW

FKNAS/013/1986

M.A. (Aberdeen), PhD (London), Dip.ED (EA & Edin), F.R.G.S.

Prof. Ominde was born at Nyahera, Kisumu District in 1924. After his early education at Alliance High School he joined Makerere College in Uganda where he obtained Diploma in Education. He obtained a M.A. degree in Geography at the University of Aberdeen. He obtained another Diploma in Education at the University of Edinburgh in 1955 and joined Makerere University College, Geography Department. In 1963. He was awarded a Ph.D. degree by London University. He transferred to the University College Nairobi in 1964 where he was appointed Professor in the Geography Department, thus becoming the first indigenous professor in the University of East Africa. He served as Dean of the Faculty of Arts and as a member of the University of Nairobi Council. In 1976, he founded the Population Studies and Research Institute of the University of Nairobi and was appointed its first Director. Prof. Ominde was a member of many national and international societies and commissions. He was a Fellow of the Royal Geographical Society (F.R.G.S.) of Britain. Prof. Ominde was one of the world renowned authorities in Geography, but more specifically in the area of demography where, indeed, he was the leading authority in Kenya. He was a prolific writer and authored over 70 publications including some seven books. He authored Land and Population Movements in Kenya, Population of Uganda, Kenya and Tanzania and edited Studies in East African Geography, Population Growth and Economic Development in Africa and Population and Development in Kenya. Prof. Ominde passed on in the year 1995 and is post-humously honored.



PROF. WANDIGA, OYOO SHEM

FOUNDING FELLOW

FKNAS /014/1986

BSc. (Howard,USA), M.Sc. (Maryland,USA), PhD. (USA).

Prof. Wandiga was born in Karachuonyo, Homa Bay County in 1939. He received his early education at Kamagambo School and Pine Forge Institute, Pennsylvania. He received his B.Sc., M.Sc and Ph.D degrees at Howard, Maryland and Case universities respectively. He joined the Department of Chemistry at the University of Nairobi in 1972, where he has held various positions, including Chairman and Professor of Chemistry, Principal of College of Biological and Physical Sciences, Deputy Vice Chancellor, and Founder Director of the Institute for Climate Change and Adaptation. He was a member of many national and international scientific

organizations, including, Chairman, Natural Sciences Committee of the Kenya National Commission of UNESCO, a member of the International Society for Trace Element Research in Humans and Coordinator of the Eastern and Southern Africa Environmental Chemistry Network. Prof. Wandiga has had a long-standing research interest in coordination chemistry, and environmental and pollution chemistry. He has to date published over 70 scientific papers mainly in the area of coordination and analytical chemistry. His studies of heavy metal content in living specimens have revealed moderate to high concentrations in Kenya Human hair. However, the concentration of these metals in the tissues of fish from the Winam Gulf of Lake Victoria and Indian Ocean are low. Similarly, the metals concentration in the Kenyan lake waters and sediments are low. His recent achievement involves the identification of termites as a major biological source of methane and carbon dioxide emission of the tropics feeding on fungus combs and soil do emit methane and carbon dioxide as do lower termites.



PROF. WASUNNA, ONYANGO AMBROSE

FOUNDING FELLOW

FKNAS/015/1986

MB ChB, (E.A), MD. (Nairobi), FCS (Edin. & Eng); FRCS.

Prof. Wasunna was born in Karateng, Kisumu District in 1938. After his early education at Maseno High School, he proceeded to Makerere University College in 1958 where he studied Medicine and was awarded MB Ch.B. degrees in 1961. He served in the Ministry of Health as a doctor until around 1967 when he went to the United Kingdom for postgraduate professional training in Surgery. On his return home in 1971, he joined the Department of Surgery of the University of Nairobi. He served as Professor and Chairman of the Department of Surgery since 1975, as a Dean of the Faculty of Medicine and as a member of the University Senate for over ten years. Prof. Wasunna built one of the best postgraduate training programmes in Surgery in Africa today where over 50 specialists have, so far, been trained in Surgery under his tutelage. He was a first class and most dedicated practical surgeon whose skills in the profession are internationally recognised. Prof. Wasunna was a member of many national and international medical societies and organizations. He served on many occasions as a consultant to the World Health Organization in various capacities. Prof. Wasunna's research interest was in the area of Gastroenterological Surgery, an area where he published extensively, and an area where he was the leading expert in Kenya. He has over 40 publications, mainly in the field of Surgery. Prof. Wasunna passed on in the year 2008 and is post-humously honored.

PART 3:

FELLOWS AND MEMBERS

3.1 BIOLOGICAL SCIENCES, INCLUDING MEDICAL SCIENCES



PROF. KEYA, O. SHELLEMIAH

FKNAS/022/1986

BSc. (Makerere University), MSc. & PhD (Cornell University, USA).

Prof. Keya is a retired professor of Land Resources Management and Agricultural Technologies, University of Nairobi and Chancellor of Dedan Kimathi University of Science and Technology. He attended Wang'apala, Kisii and Kakamega schools and graduated from Makerere University (BSc.), Cornell University (MSc and PhD.). He is an author/co-author of over fifty scientific journal articles and proceedings, eleven books/monographs and has delivered several invited conference papers. He is credited with preparing technical reports on issues pertaining to natural resources management, science/technology, and policy including the environment. Prof. Keya has been principal investigator in many research projects addressing soil health/fertility, one of his accomplishments being the development, production and promotion of legume inoculants in East and Southern Africa, jointly commercialized as BIOFIX by the University of Nairobi and MEA Ltd. He is a member of over ten scientific societies and academies. He has consulted for national Governments and international organizations such as FAO, UNEP, UNESCO, World Bank, UNDP, AGRA and NGOs. He holds distinguished awards from the African Academy of Sciences/Ciba-Geigy Gold Medal & Soka Gakkai Award of Highest Honor, consisting of Gold Medal; University of Nairobi Staff Merit Award for outstanding contribution towards the University's Mission and nine other academic prizes. He participated either as Chair or Board Member of 35 organizations, among them national and international organizations and University, Senates. He was Board Chair Kenya Forestry Research Institute (KEFRI); Directors, Kenya Agricultural Research Institute (KARI); African Centre for Technology Studies (ACTS); Member of ICIPE Governing Council; Tribunal member of Kenya Industrial Property Organization and UNESCO/UNEP/ICRO Microbiology Panel. His National and international appointments and responsibilities include Director of Microbiological Resource Center (MIRCEN) 1976–1978; Chairman, Department of Soil Science, University of Nairobi, 1976–988; Professor of Soil Science (1981-1998); Dean, Faculty of Agriculture, 1984–1988; Principal, College of Agriculture & Veterinary Sciences April-June 1988; Vice-Chancellor, Moi University, 1988–1994; Executive Secretary, Technical Advisory Committee, Consultative Group on International Agricultural Research/Food and Agriculture Organization of the United Nations, 1996–2000; Executive Secretary, interim Science Council, CGIAR/FAO, 2001–2003; Assistant Director General Research & Development- AfricaRice Center (WARDA) 2004-2007; Advisor to the Director General Africa Rice Center (WARDA) 2008 - Jan 2009. In his professional endeavors he travelled widely in all the five continents. Having served in two international organizations, three public universities of Makerere, Moi and Nairobi his

successive and progressive professional pursuits shaped his science, technology, policy, and educational management.



PROF. MUKUNYA, M. DANIEL

FKNAS/026/1986

BSc. (California), MSc., PhD (Cornell, USA), OGW.

Prof. Mukunya was born in 1944. He holds a Doctor of Philosophy (PhD) degree in plant pathology from Cornell University, USA. He has 40 years of experience in training, research, administration, and consultancy in the areas of agricultural planning, production, appraisals, policy formulation and capacity building. He has spent over 30 years as a Professor of the University of Nairobi, Kenya and has held senior responsibilities including being Chairman of the Department of Crop Science (3 years), Dean of the Faculty of Agriculture (7 years) and the Principal of the College of Agriculture and Veterinary Sciences (10 years) apart from serving in Kenya Government statutory organizations as Founder Chairman of the Pest Control Products Board, a member of the Coffee Research Foundation Board for which he served as the Chairman of the Coffee Research Advisory Committee for eight years. Prof. Mukunya has vast experience having handled consultancy assignments in agricultural and environmental areas not only within Kenya but also in other countries including Uganda, Rwanda, Burundi, Cameroon, Bukina Faso, Tanzania, Canada, and the UK. He has conducted research on crops in collaboration with researchers in the Ministry of Agriculture in the improvement of beans grown in Kenya. He has published more than 60 papers in scientific journals and international media and has mentored many upcoming Kenyan scientists and agricultural extension specialists. Prof. Mukunya is the current Chairman of the Kenya Plant Health Inspectorate Service Board of Directors having been appointed to this position by the President of Kenya in 2011.



PROF. WERE, KHAMADI MIRIAM

FKNAS/036/1986

BA (William Penn), Dip. Ed (E.A), MB, ChB (Nairobi), MPH (JHU), Dr PH (JHU).

Prof. Were was born in 1940. She is an outstanding example of a brilliant scientist with determination and consistency within a compassionate and flexible frame of mind. This is exemplified by the fact that she only had biology at high school but taught herself high school chemistry and physics when enrolled at William Penn College, Oskaloosa Iowa in 1961. On graduating in 1964 with a composite major in natural sciences with a focus on biology, chemistry and physics; she was listed among who is who among Students Graduating from American universities and Colleges for

outstanding grades. While her focus was on medicine, she enrolled into the Diploma in Education program at Makerere in 1965 when the Ministry of Education asked her to prepare to teach sciences in high school. She completed the year's course in 1966 and got married to Humphreys R. Were. Prof. Were successfully transmitted scientific knowledge and physical education to high school minds as some subsequently took up science-based careers. But moved by the lack of African doctors, while a wife and mother, she enrolled in the Faculty of Medicine in Nairobi in 1968. On graduation in 1973, she was cited as the best overall student in the graduating class and honored with prizes such as the Kenya Medical Association Prize. Subsequently, she distinguished herself as a medical officer in the Ministry of Health, Division of Communicable Disease Control in 1973-1974. She was recruited into the Faculty of Medicine in 1974 to teach in the Department of Community Health. While in the Department, she obtained both the Master (1976) and Doctor of Public Health (1981) degrees from the Johns Hopkins University, USA where, in 1981, she was admitted into the Public Health Honor Society and also received the George Tolbert Award for outstanding contribution to International Public Health. Miriam became Head of the Department of Community Health in 1982 and coordinated the establishment of the first Master of Public Health program in Kenya. During the time in the Department of Community Health, she implemented a major research project-Organization and Management of Community-Based Health Care, which was published by UNICEF in 1982. From 1985, Miriam started on a distinguished international career as Chief of Health and Nutrition in UNICEF, Ethiopia (1985-1990), Representative of the World Health Organization in Ethiopia (1990-1993) and Director in UNFPA heading a team that provided technical services in Population and Reproductive Health in East, Central and Anglophone West Africa. In 1992, W.H.O published her work - Accelerated Child Health Development (ACHD) in health systems research series. Since retiring from the UN in 2000, Prof. Miriam Were has been honored through senior positions, including Chair of the National AIDS Control Council and the African Medical and Research Foundation (2003-2009) plus membership in key boards such as the Global Health Workforce Alliance and Champions for an HIV-Free Generation with former Heads of State. She has been called upon to give keynote addresses across the world.



PROF. MICHIEKA, W. RATEMO

FKNAS /043/1994

BSc (Rutgers, USA), M.Ed (Rutgers, USA),) PhD. (Rutgers, USA), EBS, SS.

Prof. Michieka is a member of the University of Nairobi and Founding Vice Chancellor of JKUAT. He is currently the Honorary Secretary of KNAS. He is a graduate and Distinguished Professor of Rutgers University where he obtained his Bsc, MSc, and PhD in Agriculture specializing in weed Science and Environment. He got a Postdoctoral post at the International Institute of Tropical Agriculture (IITA) in Ibadan Nigeria prior to his appointment at the University of Nairobi as a lecturer in 1980. Prof. Michieka has held national and international positions cutting

across academic and community services. He served as the: Director General of National Environment and Management Authority (NEMA); Chairman of the Kenyatta University Council; Chairman of the Kenya Agricultural Research Institute (KARI); chairman of the Kenya Education Network (KENET); chairman Inter-University Council for East Africa (IUCEA); chairman of the African Scientific Research and Innovation Council (ASRIC) and Patron of Japanese Ex-Participants (JEPAK). Other committees where he has served include: Kenya Marine and Fisheries Institute (KEMFRI), Commission for Higher Education, currently CUE, and Member Environmental Institute of Kenya (EIK). He was the Chairman of Weed Science Society of Eastern Africa, Member of FAO Weed Specialists, member of the Compliance Committee of the Kyoto Protocol of United Nations Framework Convention on Climate Change (UNFCCC), and Founder of the African Institute for Capacity development, AICAD. While in NEMA, he articulated environmental pollution and degradation and produced the first state of our environment publication. Prof. Michieka has done extensive research in weed science, with special emphasis on chemical weed control. He is a strong proponent of using integrated pest ecosystem management systems in the tropics to avoid environmental pollution. Prof. Michieka is a member of many national and international organizations in weed research and environment. He has trained several masters and PhD students engaged in various local and international organizations. He has published widely in local and international journals and has published four books including Taxonomy of East African weeds translated into Kiswahili plus other university textbooks.



PROF. NYAGA, NJERU PHILLIP

MKNAS/ 059/1995

BVM (Nrb), MPVM (California), PhD. (California).

Prof. Nyaga was born in 1948. He is Professor of veterinary virology at the University of Nairobi, Department of Vet. Pathology, Microbiology and Parasitology. He has extensively taught for many years at undergraduate and postgraduate levels. He has conducted extensive research in veterinary virology and has supervised many post-graduate students. He also supports the Department in diagnostic services in veterinary virology and poultry pathology.



PROF. OKELO, O. DOMINIC

FKNAS/ 069/1996

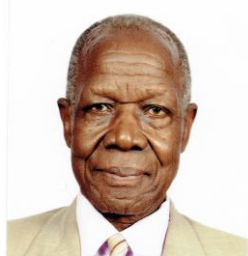
B.V.Sc., MSc. (UoN), Dr.Vet.Med. (Switzerland), PhD (UoN).

Prof. Okelo is a Professor of Veterinary Anatomy who studied at Strathmore College of Arts & Science, Nairobi, St. Mary's School Yala ("O" Level - December 1964); University of Nairobi for PhD (1979); University of Bern, Switzerland for (Dr. Med. Vet. 1974); University of

Nairobi for MSc. (Veterinary Anatomy, 1973) and University of Nairobi for Bachelor of Veterinary Science (BVSc/BVM, 1971). Prof. Okelo has been a lecturer at the University of Nairobi throughout his working life and has taught most of the veterinary doctors/surgeons in Kenya and has risen through the academic ranks. He was Chairman, Department of Veterinary Anatomy (1982-1988), Principal, College of Agriculture and Veterinary Sciences (CAVS - 1988-1994), Chairman, Board of Kenya Veterinary Vaccine Production Institute (KEVEVAPI - 1990-2000), member of the Board of the National Museums of Kenya (1984-1989), member of the Kenya Agricultural Research Institute (KARI) Scholarships Award Committee (1988-1993), member of the KARI Research Fund Management Committee (1991- 2000), member of the Strathmore University Council (2004- 2006, 2009-2011). He also holds membership of professional and social clubs which include: fellow Kenya National Academy of Sciences, member of the Kenya Veterinary Association, member of the East African Wildlife Society, member of the United Kenya Club and member of the Chiromo Campus Club. He has attended many international scientific conferences and travelled widely in Western Europe and North America (USA and Canada). He has published extensively in peer-reviewed journals in reproductive biology.

PROF. ALUOCH, RONALD JOASH

FKNAS/ 081/2004



BSc., MSc., MD., PhD., FRCP (Edinburgh), FAAS.

Prof. Aluoch was born on 30th January 1942 in South Nyanza, Kenya. After his early education in Kenya and Uganda across Kamagambo and Bugema Secondary Schools, he trained at the Makerere University College Science Laboratory Training Unit before proceeding to study medicine at the University of Utrecht, the Netherlands where he graduated M.D. in 1974. He then specialized in Pathology and Internal Medicine at the University of Nijmegen and was registered as a Specialist in Internal Medicine in September 1979. Till the end of that year, he continued in the Sub-Division of Gastroenterology for technical skills in gastroenterologic endoscopy before moving to University of Amsterdam for Ph.D. work, obtaining his Ph.D. degree on 31st October 1985. During the PhD work in Amsterdam he was also able to gather a six years experience in Tropical Medicine and Infectious Diseases at the Division of similar name at the Royal Tropical Institute as a sub-division of Internal Medicine of the University of Amsterdam. He was appointed Lecturer in the Department of Medicine University of Nairobi by 1st December 1985, rising to the level of Associate Professor in 1997 before becoming Professor and Head, Department of Internal Medicine at Moi University in July 2005. He became founding Dean, School of Medicine, and Maseno University in 2009 and thereafter joined the young School of Medicine at Jomo Kenyatta University of Agriculture and Technology (JKUAT) as Professor of Internal Medicine from July 2015 to date. He also holds a certificate in Clinical Epidemiology from the University of North Carolina at Chapel Hill, U.S.A. awarded in 1989. Professor Aluoch is a patient-care oriented physician who headed the Sub-Division of Clinical Hematology and Oncology of the Department of Medicine,

University of Nairobi from 1987 to early 2005. He has extensively researched in medicine especially on sickle cell disease both in Kenya and in the Netherlands. He has also researched in malignant hematology in Kenya. Research in malaria especially in relation to the sickle cell gene remains of major interest. Besides all the fore mentioned resulting into various publications in peer reviewed papers in international professional journals, three books with contributions toward another two books, the same works have either led to or resulted from supervision of candidates for higher degrees at both doctorate and master's levels. He has also read scientific papers at several professional conferences, seminars and workshops. He holds Fellowships from: Royal College of Physicians of Edinburgh (FRCP Edin), African Academy of Sciences (FAAS), Kenya National Academy of Sciences (FKNAS), International Society of Hematology, International Clinical Epidemiology Network and memberships of professional societies like the Kenya Medical Association, Kenya Association of Physicians, American Society of Hematology, and American Society of Clinical Oncology. Prof. Aluoch speaks and writes six languages: Dholuo, Swahili, English, and Dutch fluently and can communicate in both German and Hungarian. Extra-curricular activities include involvement in both rural health and education. His leisure reading material covers the fields of medieval and denominational history, political science, astro-physics and aviation. He is currently a member of the governing council of the Kenya National Academy of Sciences.



PROF. ARIMI, MUTWIRI

MKNAS/ 082/2004- DIED 21 APRIL, 2022

PhD (UK), MSc (UoN), BVM (UoN).

Prof. Arimi was born in 1949. He graduated from the University of Nairobi with a Bachelor of Veterinary Medicine (BVM) in 1976 and subsequently joined the Department of Public Health, Pharmacology and Toxicology. As part of his MSc. studies, he undertook a postgraduate course in diagnostic microbiology and mastitis diagnostic procedures at the University of Oslo, Veterinary School in 1977. In 1979, he graduated from the University of Nairobi with a MSc degree in Public Health (Dairy Microbiology) and taught food and milk hygiene. In 1984 he registered at the University of Reading, UK, for PhD in microbiology and graduated in 1987. He returned to Kenya and resumed his teaching and research duties. In 1994 he received a one-year Fulbright scholarship to the University of Vermont, U.S.A., and became a member of the Department of Animal and Food Science and conducted research on listeria. On return he resumed his undergraduate and postgraduate teaching in food hygiene, zoonotic diseases and impact of animal diseases and production management practices on food safety and quality. Prof. Arimi has participated in many research projects and supervised graduate students on brucellosis and other studies. He has published 43 research papers in refereed journals. In 1998 - 2002, he was one of the key players in the smallholder dairy project in the high potential dairy areas of Kenya funded by DFID, which looked, among other things, at the risk of transmission of brucellosis and E. coli O157: H7 through consumption of raw milk. In appreciation of good team work, he received the

Neville Clarke Award for outstanding teamwork in 2002. In 2009, he was awarded the Veterinary Research Award by the Kenya Veterinary Board and Kenya Veterinary Association in recognition of exemplary contribution to veterinary profession and community through outstanding veterinary research. Prof. Arimi is a member of the Fulbright Scholars alumni, Kenya Veterinary Association and Kenya Veterinary Board. Since 1990, Prof Arimi has been a member of the departmental committee on postgraduate studies, Head of the Public Health section of the Department (1994 – 1997, 2008), member of the Faculty Biennial Scientific Conference Organizing Committee (2004 to date) and acting Chairman of the department on many occasions since 1989.



PROF. KAIMENYI, THURANIA JACOB

FKNAS/ 087/2004

PhD [UoN], MDS. [India], BDS. [UoN], FICD, FICOI, EBS, EGH.

Prof. Kaimenyi was born in 1952. He holds a Bachelor of Dental Surgery degree (1978) and a Master of Dental Surgery in periodontology (1982) from the University of Nairobi, Kenya and Mangalore University, India respectively. In 1998, he obtained a PhD in periodontology from the University of Nairobi. He is a Professor of periodontology, and served as Deputy Vice-Chancellor (Academic Affairs) University of Nairobi (2004-2013). Through his initiative, the University was amongst the first universities to develop a research policy, which saw the creation of the office of Deputy Vice-Chancellor (Research, Production and Extension). As the first elected Dean of the School of Dental Sciences in 2000, he contributed immensely to its growth into a centre of excellence in East Africa, offering postgraduate degrees that he initiated. He was instrumental in the development of Kenya Oral Health Policy in June 2002, which guides the practice of dentistry. Currently, he holds the following other positions: Member, Board of Trustees of Regina Pacis University College; Member, Board of Governors, Buru Buru Girls Secondary School; Chairman, Board of Management, Thomas Burke Primary School; Chairman, Meru Professionals Association; Member, Consortium for National Health Research; Member, Medical and Dental Practitioners Council. In the past, he has held several senior positions at local and international levels such as the President of Commonwealth Dental Association and President of the East and Southern Section of the International Association for Dental Research. He has served on the editorial boards of four international journals. In 2006, he was recognized as an Ambassador of Peace by the Inter-religious and International Federation for World Peace and the inter-religious and international peace council. In April 2008, was awarded a Diploma for the 2000 Outstanding Intellectuals of the 21st Century. He was entered into WHO'S WHO in the World, 2008 by MARQUIS WHO'S WHO Publications Board. In February 2010, he was awarded an Honorary Fellowship of the International Congress of Oral Implantologists. On 12th December 2010, he was awarded Elder of the Burning Spear (EBS) by the President of the Republic of Kenya, for his outstanding contribution towards health and education. He has over 60 publications

to his credit. He has contributed chapters to two dental textbooks. Prof. Kaimenyi has given over 27 invited lectures locally, regionally and internationally.



DR. KANJA, WAKONYU LAETITIA

MKNAS/088/2004

PhD, MSc., BSc. (UoN).

Dr. Kanja was born in Iria-ini location, Nyeri district on 7th October 1952. After her early education, she proceeded to University of Nairobi where she graduated in 1978 with Bachelor of Science (Chemistry). She then registered for her Masters in Environmental Chemistry in the same University and graduated in 1982 and later did her PhD in Toxicology in 1989. Dr. Kanja is currently working as a Senior Lecturer, Department of Public Health Pharmacology and Toxicology in the University of Nairobi. From 1989 - 1998, she worked as a Lecturer in the department of Public Health Pharmacology and Toxicology in University of Nairobi. In 1982, she was employed by the University of Nairobi as a Tutorial fellow in the Department of Chemistry. She also worked as a Chemist under Ministry of water development and as a science teacher in Mutuga, Kwale and Kibutha (Murang'a) Girls Schools in 1975. Dr. Kanja is an environmental toxicologist with many years of research and teaching experience at both bachelors and graduate level. Prof. Kanja has supervised many graduate students (MSc and PhD) and has been involved in collaborative research with local and international laboratories developing analytical methods for chemical analysis. Her initial research study involved the determination of levels and sources of organochlorine pesticide residues in breast milk, and was the first research paper of its kind to be published in Kenya that shed light on the situation of DDT in the environment and the human impact. The data generated was used to support the ban of DDT use in Kenya. Other research activities involved comparison of pesticide residues in adipose tissue, the significance of organochlorine exposure of the infant in utero, pesticide residues in fish, eggs, commercial infant formulas, foodstuffs, heavy metal pollution in various biological matrices. Currently advancing in areas of mycotoxin analyses in foods and animal feeds and related health effects, phytochemical compounds- therapeutic and toxicological effects and dioxin related compounds in human milk. She has 24 publications in refereed and peer-reviewed journals and presented scientific papers in national/ international conferences, workshops and seminars. Membership in professional societies: Kenya Professional Association of Women in Agriculture and Environment and Kenya National Academy of Sciences.

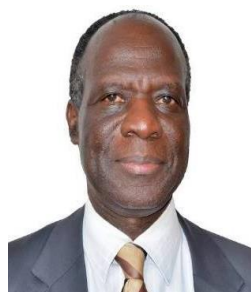


PROF. KIAMA, GITAHI STEPHEN

MKNAS/ 089/2004

PhD (Bern, Swizerland), MSc. BVM (UoN).

Prof. Kiama was born in 1964. He is the current Vice Chancellor, University of Nairobi. Prof. Kiama is a graduate of the University of Nairobi with Bachelor of Veterinary Medicine (1990) and Masters of Veterinary Anatomy (1995). He is also a graduate of the University of Bern, Switzerland with a Doctor of Philosophy in structural biology. He also has a certificate on laboratory animal science from ETH, Zurich. Prof Kiama has served as a visiting researcher in University of Bern, Switzerland and University of Witwatersrand, South Africa. In 2010, Prof Kiama received AAU staff exchange fellowships to visit the University of Ghana, Legion where he facilitated in setting up an anatomy laboratory for their newly established Faculty of Veterinary Medicine. Prof Kiama has research interest in natural products and bioprospecting, dendritic cell biology and structural biology. Prof. Kiama served as the founding director of Wangari Maathai Institute for Peace and Environmental Studies, which was established by the University of Nairobi in 2010. Prof. Kiama has also served as the Associate Dean of the Faculty of Veterinary Medicine from 2003 to 2010, acting Dean of Faculty of Veterinary Medicine in part of 2003 and 2004 and as Chairman of the Department of Veterinary Anatomy and Physiology, University of Nairobi from 2005 to 2010. In addition, Prof. Kiama has served in various capacities in the society and University of Nairobi. He has served as a member of the council of Kenya Veterinary Association and editor in chief of the Kenya Veterinarian, a journal of the Kenya Veterinary Association. Prof. Kiama has published widely in the fields of structural biology and natural products and bioprospecting.



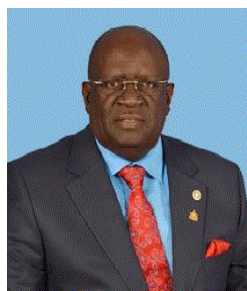
PROF. KOKWARO, ONYANGO GILBERT

FKNAS/091/2004

B.Pharm (UoN), MSc (UoN), Ph.D (Cardiff, U.K), FAAS.

Prof. Kokwaro was born in 1954. He is a professor of Health Systems Resesearch and director, Institute of Healthcare Management at Strathmore University and Professor of Pharmaceutics at the University of Nairobi. After his early education at Lenana High School, Nairobi, Prof. Kokwaro proceeded to the University of Nairobi to study Pharmacy (1974-1978), graduating with a Bachelor of Pharmacy (B. Pharm) in 1978. He briefly worked for the Ministry of Health, before registering for a Master's degree in Pharmaceutics at the University of Nairobi in 1980 under a DAAD scholarship. He obtained an MSc in 1982, and was immediately employed by the University of Nairobi as a Tutorial Fellow in the then Department of Pharmacy. In 1984, Prof. Kokwaro received an Association of Commonwealth Universities scholarship to study for a PhD in pharmacokinetics at the Welsh School of Pharmacy, University of Wales (Cardiff, U.K) and returned to Kenya after

completing in 1987 as a lecturer in pharmaceuticals. He was subsequently promoted to senior lecturer at the University of Nairobi in 1989. In 1991, Prof. Kokwaro obtained a fellowship from the Wellcome Trust, UK, and proceeded to the University of Liverpool, UK, for a 2-year postdoctoral fellowship in clinical pharmacology (drug metabolism and pharmacokinetics) at the Department of Pharmacology & Therapeutics, University of Liverpool. He came back to Kenya in 1993, was promoted to Associate Professor in 1995, and Professor in 2000. Between 2001 and 2005, Prof. Kokwaro was honorary visiting Professor of Pharmacology & Therapeutics at the University of Liverpool. He has been a Fellow of the African Academy of Science since 2006. Prof. Kokwaro has published over 80 scientific papers, and reviews in the area of drug metabolism, pharmacokinetics and clinical pharmacology, with special interest in drugs used in the treatment and management of severe malaria in African children. He contributed to research that led to the change from use of sulphadoxine/pyrimethamine (SP) to artemisinin-based combination therapy (ACT) in Kenya and was instrumental in the development of the first guidelines on treatment of TB, HIV & AIDS and MALARIA for Eastern, Central and Southern African Countries. He has served in several WHO Research Capacity Strengthening Committees, was a member of the Medicines for Malaria Venture Expert Review Committee (1998-2002) and has been a member of editorial boards of several international Journals. He has been a member of a Technical Advisory Committee for GSK on antimalarial resistance, and a member of the editorial board of Malarial Journal (2009-2012). He has over 100 publications and abstracts in broad areas of Clinical pharmacology, drug quality and policy.



PROF. MAGOHA, O. ALBERT GEORGE

FKNAS/ 094/2004

IOM, MBS, MBBS, FWACS, FICS, FRCS (ECSA-Dublin), FAAS, FMCS (Urol, Lagos).

Prof. Magoha was born in 1952. He is a consultant surgeon, academic administrator and technocrat. Prof. Magoha is currently the Cabinet Secretary, Ministry of Education as from March 26, 2019. He concurrently serves as a Consultant Urologist at Kenyatta National Hospital, the teaching hospital of the University of Nairobi. He is a Professor of Transplant Surgery. Prof. Magoha served as a Vice-Chancellor, University of Nairobi (2005- 2015), and a Professor of Surgery and consultant urologist, College of Health Sciences, University of Nairobi. He served as the Chairman of the Kenya Medical Practitioners and Dentists Board and Chairman of Kenya Association of Urological Surgeons; KAUS (1997-2013). Prof. Magoha had his primary education in Yala and Nairobi before joining Starehe Boys Centre and Strathmore School for High School education in Kenya. He thereafter proceeded to the University of Lagos where he studied Medicine. He furthered his studies in surgery and urology at Lagos University Teaching Hospital, University College Hospital, Ibadan, Royal College of Surgeons, Dublin, Ireland and Royal Postgraduate Medical School

Hammersmith Hospital, London Department of Urology, where he earned various academic awards. He trained in executive management at the University of Stanford, USA. He has many international professional honours and awards. Locally, the awards include Moran of the Burning Spear (MBS) and Elder of the Burning Spear (EBS). Prof. Magoha established his career in medicine in Lagos University Teaching Hospital as an intern and rose to senior resident and clinical lecturer in surgery. He also served as an honorary lecturer in the same hospital and a consultant surgeon in various leading hospitals in Lagos, Nigeria. Prof. Magoha joined the University of Nairobi as a lecturer in urological surgery in 1988 and rose through the ranks to become Professor of Surgery in 2000. He has served in various administrative positions at the University of Nairobi among them; Chairman of the Academic Department of Surgery in 1999, Dean, Faculty of Medicine in 2000, Principal, College of Health Sciences in 2001, Deputy Vice-Chancellor in charge of Administration and Finance in 2002, and later as the Vice-Chancellor from 2005 to 2015 until his retirement. Prior to his appointment as the Cabinet Secretary, he served as the Chairperson for Kenya National Examination Council (KNEC), where he made tremendous contributions in shaping the examination body. He also serves as an honorary consultant surgeon and urologist at Kenyatta National Hospital and is the current President of the Association of African Universities (AAU). Prof. Magoha has published more than 51 peer-reviewed publications and supervised to completion over 40 Master of Medicine (surgery) students. He is a member of many professional bodies in urology and surgery and is actively involved in various studies in male erectile dysfunction, prostate, testicular and penile cancers, circumcision and HIV/AIDS. Prof. Magoha is married to Dr. Barbara O. Magoha and together they are blessed with a son, Dr. Michael Magoha.



PROF. NJENGA, MUNENE JOHN

MKNAS/ 103/2004

BVM(UoN), MSc.(UoN), PhD (Obihiro, Japan).

Prof. Njenga was born in 1958. He is an Associate Professor in Clinical Veterinary Medicine specialized in clinical protozoology. He has served as Dean, Faculty of Veterinary Medicine of the University of Nairobi, and Deputy Vice-Chancellor, Egerton University. He has over 28 years' experience in practical clinical practice and research and has published and presented in conferences over 40 publications. He has wide experience in collaborative research and global partnerships. Currently, has supervised three (3) PhD students in areas of clinical veterinary medicine. He has special interest in finding solutions to zoonoses among the low-income people in urban areas.



PROF. NJUKI, KANYARI PAUL

MKNAS/ 104/2004

PhD (Queensland, Australia), MSc, BVM. (UoN).

Prof. Njuki was born in 1954. He is currently a Professor of Veterinary Parasitology, at the University of Nairobi. He acted as the Principal, Embu University College at its initiation in 2012. He also served as a Dean of the Faculty of Veterinary Medicine, University of Nairobi (2004-2008). During his tenure, the faculty established many links with veterinary schools in USA where many undergraduate students participated in exchange programmes getting attachments to gain international exposure to the various aspects of veterinary medicine outside the tropics. It was during his tenure that, the undergraduate curriculum for Bachelor of Veterinary Medicine was revised to allow for a lecture-free final year, thus exposing students to more clinical cases, client interaction and research project development. Prof. Njuki lectures in all sub-disciplines of Parasitology at the Faculty of Veterinary Medicine, University of Nairobi. He graduated in 1979 with a Bachelor's degree in Veterinary Medicine and in 1982, a Master's degree in veterinary pathology, microbiology and parasitology from the University of Nairobi. Between 1983 and 1987, he undertook his studies for a PhD in veterinary parasitology at the University of Queensland, Australia and graduated in 1989. He has supervised several master's and doctorate students and has several publications to his credit. His research interests are diverse but have a strong bias towards protozoology, zoonotic parasitic infections, urban livestock farming and economics of production limiting infestations among beef animals and poultry. He has established several links with such universities as Tuskegee University, Alabama, USA, where he spent his sabbatical as a Senior Fulbright Scholar; Royal Veterinary College, University of London, UK and Cluj University of Agriculture and Veterinary Sciences, Cluj-Napoca and Romania.



PROF. PATEL, B. NILESH

FKNAS/ 117/2004

BSc., MSc. (UoN), PhD (California).

Prof. Patel was born in 1954. His early education was at Nairobi School and Lindisfarne College (Wales). He obtained his BSc (Hons) degree from the University of Nairobi and proceeded to University of California, Irvine, for a Ph.D. degree. After a post-doctoral training at University of California, Davis, Prof. Patel returned to Kenya and joined the University of Nairobi in 1989 where he has taught physiology and neuroscience. Prof. Patel is a member of several national and international scientific societies: Kenya Society of Neuroscientists, Society of Neuroscientists of Africa (SONA), International Brain Research Organization

(IBRO), and Society for Neuroscience (USA), New Year Academy of Science and International Society for Neurochemistry. He was the Secretary-General of SONA for eight years and has served on the Africa Regional Committee of IBRO. He is the current Chairman of the Department of Medical Physiology, College of Health Science, and University of Nairobi. Prof. Patel has published research papers on nerve synaptic formation, Alzheimer's disease, trypanosomiasis and *Catha edulis* Forsk (miraa). His research interest is the use of neuroscience behavioral techniques to study neurobiology problems unique to Africa. With Dr. Andreas Kopf, Free University of Berlin, he edited "Guide to Pain Management in Low Resource Setting" for the International Association for the Study of Pain (IASP). Over the years, Prof. Patel has organized workshops and conferences to promote research, training and teaching in neuroscience in Kenya and Africa.



PROF. WANJALA, MUYOMA FREDRICK

MKNAS/123/2004

PhD, MSc., BSc. (UoN).

Prof. Wanjala was born in 1950. He holds a BSc degree in Agriculture from Makerere University as well as MSc and PhD from University of Nairobi. He has 42 years of research and 25 years of combined research and teaching at university level. Prof. Wanjala has contributed to intellectual life at Kenyan universities, research foundations and institutes, specializing in bio-sanctuary of botanicals of population, dynamics of crop pests and disease vectors for designed efficacious strategies that are innovative, ecologically user friendly and environmentally sound but taking into consideration residues and resurgences. He is a prudent implementer of integrated pest management based on bio-preparation, bio-control augmentation in cereals, coffee, tea and horticultural crops. He has undertaken grant-funded contract research, technological consultancies proposal/project appraisals and reviews of manuscripts and theses. He is an accomplished entomologist with over 50 publications in refereed journals and high caliber conferences.



PROF. ABUKUTSA-ONYANGO, O. MARY

MKNAS/139/2007

BSc, MSc, PhD (UoN), EBS.

Prof. Abukutsa-Onyango was born in 1959. She is an award winning, experienced and internationally recognized, dynamic, result oriented mentor, strategic thinker, educator, scholar, scientist, transformational leader and a prolific researcher. Prof. Abukutsa-Onyango has served in the public service in Kenya for 30 years. She worked in the mainstream public service in the Ministry of

Agriculture between 1983 and 1991 before moving to serve at Maseno University and Jomo Kenyatta University of Agriculture and Technology (JKUAT). While at the university she has served in several senior leadership and managerial positions since 1999, including being coordinator of research, Dean of the Faculty of Science, Director of the School of Graduate Studies at Maseno University and as convener of JKUAT resource mobilization team and professors' forum and leader of collaboration team with World Food Programme (WFP). She has been actively involved in pro-poor and action research and university teaching for over twenty (20) years. She has competitively risen through the ranks from junior research fellow, lecturer, senior lecturer, and associate professor to professor between 1991 and 2007. Prof. Abukutsa-Onyango is currently serving Jomo Kenyatta University of Agriculture and Technology as a full professor of Horticulture and Deputy Vice Chancellor (Research, Production and Extension). She has supervised more than 80 undergraduate and postgraduate projects and has widely published. She has also successfully served in five senior leadership positions in the university system in Kenya since 1999. Prof. Abukutsa has been internationally recognized for contributing immensely in strategic repositioning of African indigenous vegetables in the horticulture sector through pioneering research, advocacy, dissemination, capacity building, restructuring academic programs, conservation and development of seed systems, agronomic technologies, processed products and dissemination materials for nutrition security and economic development in Kenya and beyond. Prof. Abukutsa's service to human kind has been recognized nationally and internationally as evidenced by several awards that include the presidential award in 2010, the Elder of the Order of the Burning Spear (EBS), African union awards for outstanding achievements in science taking first position as the best woman scientist in earth and life sciences, and top position for Africa wide women scientists Competition by Technical Centre for Agricultural and Rural Cooperation (CTA) in the Netherlands. Prof. Abukutsa-Onyango is a member of several high profile professional associations including: Horticultural Association of Kenya; Kenya National Academy of Sciences, Kenya Professional Association of Women in Agriculture and Environment, African Crop Science Society; International Society of Horticultural Science and New York Academy of Sciences. Prof. Abukutsa-Onyango has voluntarily mentored her students, young researchers and high school girls since 1996 and is currently serving as a mentor in African Women in Agricultural Research and Development (AWARD) mentoring programme. She has served as keynote speaker in several national and international fora and is a reviewer of high profile scientific journals and publishing houses. She has proven ability to fundraise; between 1992 and 2013 she raised over Kenya Shillings 100 million for research.



PROF. ESTAMBALE, B. A. BENSON

FKNAS/150/2011

PhD [UoN], MSc. [UK], MB ChB [UoN].

Prof. Estambale is a Deputy Vice-Chancellor (Research, Innovation and Outreach) at the Jaramogi Oginga Odinga University of Science and Technology (JOOUST). He is a Professor of Medical Microbiology and Infectious Diseases. More importantly, he is a Medical Doctor who has specialized in the management and control of tropical and infectious diseases. His academic passion in the area of tropical and infectious diseases saw him awarded a Commonwealth Scholarship in 1986 for a Master of Science (MSc) and a Diploma in Tropical and Infectious Diseases (DTM&H) at the University of Liverpool, UK. Similarly, he was granted a Danida Fellowship Award to pursue a doctoral degree through a sandwich programme at the Danish Bilharziasis Laboratory, Denmark in 1990. Over a span of thirty years, Prof. Estambale has played a very instrumental role in research activities that have focused on various health research activities of public health importance. These include HIV/AIDS, Malaria and other neglected diseases of the poor. He has spearheaded the completion of research work on the relationship between climate change, population health and vector borne diseases including malaria and rift valley fever. Concomitantly, he has served in various capacities either as a principal investigator, project director or programme coordinator as well as committee/board member of various research projects and programmes. Significantly, he was a Principal Investigator in the WHO/TDR/IDRC multi-country project on population health vulnerabilities and resilience to climate sensitive vector borne diseases in Africa as well as Coordinator of the Jaramogi Oginga Odinga University of Science and Technology (JOOUST) component of the CDC funded University HIV Fellowship Training Programme. He has also been involved in the scale-up programmes for antiretroviral therapy (ART) in health facilities within Nairobi County. A milestone in his career as a doctor-turned-researcher, he was the founder and pioneer Director of the University of Nairobi's Institute of Tropical and Infectious Disease (UNITID) for 9 years where he was instrumental in establishing the Institute and setting up the infrastructure for graduate degree training in health research and fellowship programmes as well as the Level-3 advanced bio-containment Laboratories. Prof. Estambale is an avid grant writer and an experienced resource mobilizer with grants totalling to several billions in Kenya shillings. At JOOUST, he is currently holding five (5) research grants awarded by the World Health Organization, National Research Fund (NRF) South Africa, NRF-Kenya, USAID and VLIR-UOS Belgium. He has attended several conferences locally, regionally and internationally. He continues to publish immensely in refereed journals at the same time making contribution to book writing and review. As a mentor, he has and continues to supervise both MSc. and Ph.D. students to successful completion. He is a health consultant and a member to several professional bodies aligned to his area of medical expertise.



PROF. MATHIU, MBAABU PETER

MKNAS/ 157/2011

Ph.D [Hawaii, USA], BVM [UoN].

Prof. Mathiu is an Associate Professor, Department of Veterinary Anatomy & Physiology-Faculty of Veterinary Medicine, University of Nairobi. He is an adjunct Professor, Department of Public Health & Family Medicine, Tufts University, Boston USA. Prof. Mathiu is an Environmental Veterinarian with vast experience in livestock health, production and livelihoods in Africa. A seasoned Facilitator, Trainer, Mediator and Consultant with in-depth experience in research, teaching, academic supervision and demonstrated leadership skills. Researches on Medicinal plants and Traditional medicines validation. An avid promoter of one health, which combines animal, human and ecosystem health for inclusive wellbeing. His experience includes; Strategic Planning, Resource Mobilization, Conflict Transformation, Peacemaking and Mediation, Environment policy formulation, Terrestrial wildlife and aquatic ecosystem health, Biodiversity information management, Biodiversity conservation assessment and management planning, Red listing, Forest Certification and a Registered Lead Expert in Environmental Impact Assessment (EIA) and Environmental Audit (EA). Prof. Mathiu is Currently serving as a member of the Governing Council, Kenya National Academy of Sciences; Lead Member, Environment Institute of Kenya, Organizing Committee Member of International One Health Conferences and a Past board member, National Biosafety Appeals Board among others.



PROF. ODHIAMBO, AMOLLO PETER

MKNAS/ 162/2011

MBBS, MMed (Surg), PhD [UoN], FRCS (Edin), FCS (ECSA), FACC.

Prof. Odhiambo is a full Professor of Thoracic and Cardio-vascular surgery since 2000 at the University of Nairobi. As Kenya's first thoracic and cardiovascular surgeon, he could not just look back on his crusade against tobacco. In 1975-76, he raised alarm based on research findings over the imminent risk of lung cancer increasing in Kenya due to increased use and consumption of tobacco. The publication of those research findings prompted an NGO, "War on Want" to undertake a follow up study whose results were published in 1978 under the title "Tobacco and the Third World: Tomorrow's Epidemic." In the same year the British GRANADA Television looked for and involved him in their 1978 documentary entitled "World in Action: Smoking- A Double Standard" which was based on Kenya as a representative case study. He was the founder editor of an independent medical journal, *Medicom-The African Journal of Hospital and Scientific Medicine* in July 1979 to champion the anti-tobacco war. He was also the founder chairman of Kenya Cardiac Society and actively participated in establishing and inauguration of the Pan-African Society of Cardiology (PASCAR) in Badagry, Lagos, Nigeria in May 1981. He later became Secretary- General

(1985–1989) and President (1989–1993) of PASCAR. With all these the scene was set for more national and international battles with the tobacco industry, often joining forces with the Ministry of Health, Kenya Medical Association, and much later, with the National Campaign Against Drug Abuse (NACADA). The Ministry of Health, Kenya, appointed him Chairman of the National Tobacco-Free Initiative Committee (NTFIC) in 2002. Prof. Odhiambo was the official spokesmen of Kenya Cardiac Society and de facto alternate voice of the Kenya Medical Association in matters relating to anti-tobacco campaign in Kenya. His booklet, “Tobacco versus Health”, put together and edited for the NTFIC and Kenya Country Office of the World Health Organization (WHO) was published in 2004. In 1984, he was listed among “Men of Achievement’ in Volume 10 of the International Biographical Centre of Cambridge, England. At the Medical School of the University of Nairobi he chaired the Division of Surgery from 1989 to 1993 and Dean of the Faculty of Medicine from 1992 to 1996, and Chairman of the Kenya Cardiac Society (1996–2002). Today, thoracic and cardiovascular surgery thrives in Kenya, thanks to a wonderful team that clustered around the Heart Unit at the Kenyatta National Hospital as a result of his management and leadership. All thoracic and cardiovascular surgeons in Kenya undertook most of their training under him. On 15 September 1990, the Giants Federation of Kenya recognized his “Outstanding Contribution in the Field of Medicine.” In March 2010, he was recognized by the Surgical Society of Kenya for his contribution to surgical training and practice in Kenya. He was elected Chairman of KETCA in 2006 and elevated to become Patron of KETCA in 2013. He was appointed the first chairman of the Kenya Tobacco Control Board in 2008 and re-appointed in 2012 for another three-year period. It is an advisory Ministerial Board of the Ministry of Health. In February 2014, he was appointed Chairman, Board of Governors, Ramogi Institute of Advanced Technology (RIAT). He continues as the editor of *MEDICOM– the African Journal of Hospital and Scientific Medicine*, now on the website of the College of Health Sciences, University of Nairobi. He chaired the University of Nairobi Teaching Hospital project, one of the flagships of the new Vice Chancellor of the University of Nairobi,



DR. NJOKA, WANGAI STEPHEN

MKNAS/ 161/2011

PhD [Moi Univ], MSc. (University of London), BSc. (UoN), OGW.

Dr. Njoka is currently the Director - Desert Locust Control Organization for Eastern Africa (DLCO-EA) Hqts, Addis Ababa-Ethiopia (since 2015). After graduating from the University of Nairobi, Dr Njoka joined the Kenya Agricultural Research Institute (KARI) in 1981 as a research officer at Mwea Tebere and worked as an entomologist with the crop protection team researching on the control and management of pests of cotton, maize, rice and horticultural crops in the region. After graduating with the MSc degree in applied entomology from Imperial College, University of London, he joined the biological control team on cassava pests, water fern and water hyacinth in Lake Naivasha in 1992.

Subsequently, he was promoted and posted to KARI Kibos as Centre Director where he pioneered the biological control of water hyacinth in Lake Victoria using exotic weevils (beetles). This achievement earned him a State Decoration by the President as “Order of the Grand Warrior of Kenya (OGW)”. Dr. Njoka was awarded the PhD degree in environmental science by Moi University in 2004 and his thesis is titled “The Biology and Impact of Nechoetina weevils on Water Hyacinth, Eichhornia crassipes, in Lake Victoria Basin, Kenya”. While at Moi University he undertook an intensive course on environmental impact and audit. He was Project Coordinator of the World Bank funded Lake Victoria Environmental Management Project (LVEMP) based at Kisumu (January 2003 - June 2006). In February 2007, Dr Njoka was transferred to KARI Embu as the Centre Director and entomologist. He was a co-researcher in the Insect Resistant Maize for Africa (IRMA) Project with CIMMYT scientists and a member of the Regional Maize Working Group. In January 2015, Dr Njoka was competitively recruited as the Director of the Desert Locust Control Organization for Eastern Africa (DLCO-EA) based in Addis Ababa, Ethiopia, whose member states are Djibouti, Eritrea, Ethiopia, Kenya, Somalia, Sudan, Tanzania and Uganda. It is recognized by the United Nations as an agency for enhancing food security by forecasting, monitoring and controlling migratory pests in the region. In the pursuit of his profession, Dr Njoka has attended many technical and management courses both locally and internationally. Dr Njoka has published widely in local and international journals, both individually and in collaboration with other colleagues. Besides his official engagement, he is passionately involved in community work and is a member of several professional and volunteer organizations, including: Founder member of the Kenya Anglican University; life Governor of the Agricultural Society of Kenya; member of the Kenya Society for Agricultural Professionals (KESAP); chairman of the Board of Governors-Gitui Mixed Secondary School, Murang’a; executive council member of St Andrews University College-Kabare; member, Standing Committee of the Synod, Anglican Church of Kenya - Mt Kenya Central Diocese; vice president of the Rotary Club of Embu. Dr. Njoka served as an academic supervisor to post graduate students at the Kenya Methodist University (KeMU).



PROF. MUTINGA, MUTUKU JOHN

FKNAS/ 029/ 1986

BSc. [Lincoln], MSc. [Kansal], PhD [London].

Prof. Mutinga was born in 1939. After his primary education, he pursued his B.Sc. degree in union College, Lincoln (1965) and later on, M.Sc (Kansal) before furthering to Ph.D. He is a renowned Kenyan university president, parasitologist, and entomologist. He is a fellow of African Academy of Sciences and New York Academy of Sciences. Prof. Mutinga has served in various capacities which include Medical entomologist in the Ministry of Health, senior lecturer at the University of Nairobi, senior principal research scientist (ICIPE), zoology professor (Kenyatta University), and Vice Chancellor (University of Eastern Africa, Baraton). Additionally, he served as a commissioner in the Commission for Higher Commission (CHE).



PROF. SEKADDE, KIGONDU CHRISTINE

MKNAS/054/1994

BSc. (Purdue, USA), PhD (N.York).

Prof. Sekadde is an associate professor at the University of Nairobi. She holds a PhD in Clinical Biochemistry from State University of New York, U.S.A. She has served as a lecturer in the Department of Biochemistry in the Medical School, Makerere University, and Kampala, Uganda. Later, she rose to the rank of an Assistant Professor at A.N. Dogliotti College of Medicine University of Liberia, Monrovia, Liberia. She then furthered her career through her appointment as an Associate Professor in the Department of Human Pathology, a unit of Clinical Chemistry in the School of Medicine, College of Health Sciences, and University of Nairobi. Her rich experience has seen her teach both undergraduate and postgraduate students in the fields of medicine, pharmacy, nursing, dentistry, general human pathology, pediatrics and surgery. Additionally, Prof. Sekadde has published many books and articles in her career.



PROF. BEBORA, CAROLINE LILLY

MKNAS/084/2004

PhD, MSc., BVM (UoN).

Prof. Bebora was born in 1949. She is a University of Nairobi Professor Emeritus in the Department of Veterinary Pathology, Microbiology and Parasitology (VPMP), a veterinarian with two specialities:-Veterinary microbiology (including zoonotic and food microbiology, and antimicrobial susceptibility testing) and Poultry disease diagnosis, treatment and prevention. She has lectured on the respective disciplines to students taking Bachelor of veterinary medicine, BSc in Biomedical technology, BSc in Wildlife diseases, BSc in Fisheries, and BSc in Leather science, including their respective Postgraduate levels, for 44 years (1976-2021). She has researched extensively and has published 85 papers in peer-reviewed journals and presented 65 papers in conferences and seminars. She has supervised several postgraduate students at MSc and PhD levels. She has served as external examiner at undergraduate and postgraduate levels in Kenya, Uganda, Tanzania and Zimbabwe. She has served as Chairperson of department of VPMP for six years and Chairperson of the University of Nairobi, Faculty of veterinary medicine postgraduate studies committee for six years. As part of University of Nairobi @ 50 celebrations, she was recognized as one of the achievers for the department of VPMP, Faculty of Veterinary Medicine, College of Agriculture and Veterinary Sciences. In 2021 International women's day celebrations, she was recognized by the CS-Ministry of Agriculture, Livestock, Fisheries and Cooperatives as one of the top 25 Kenyan women behind Agriculture sector growth, reforms and transformation. She is a member of Kenya Veterinary board (KVB); Kenya Veterinary association (KVA); and Kenya Academy of Sciences. She is one of the Board directors of the Kenya Veterinary Vaccines Production

Institute (KEVEVAPI). She is actively involved in the world-wide fight towards reduction of antimicrobial usage for subsequent reduction of antimicrobial resistance (AMR). She is a member of the National antimicrobial stewardship interagency committee (NASIC) – Kenya; was part of the taskforce that formulated the AMR National policy, AMR National action plan and AMR National surveillance strategy; she is part of the FAO-AMR surveillance Technical Advisory Group for Eastern Africa. She has co-authored 8 books. As Professor Emeritus, she continues to support and mentor departmental students and staff on microbiology and poultry medicine.



PROF. MACIGO, GITHUA FRANCIS

MKNAS/ 092/2004

BDS, MPH, PGD-STI [UoN].

Prof. Macigo was born in 1954. He started his primary education at Msekwa Primary School and obtained his Certificate of Primary Education (CPE). He then went to St. Patrick's Secondary School, Iten for East African Certificate of Education (E.A.C.E) and later, East African Advanced Certificate of Education (E.A.A.C.E). At the University of Nairobi, he is a Past Chairman, Department of periodontology/community and preventive dentistry. He is now an associate Professor in Community and preventive dentistry at the University and a Public health Specialist. Prof. Macigo is a healthcare practitioner, specialising as a Dentist His area of interest is; Oral cancer and pre-cancer and the associated risk factors.



PROF. MACLIGEYO, OUMAH SETH

MKNAS/ 093/2004

Dip. (Nephrology) [Edinburg], MMed., MB ChB. [UoN].

Prof. Macligeyo was born in 1956. Prof. Macligeyo attended his secondary education at Aquinas High School and later joined St. Mary's School, Yala, for East African Advanced Certificate of Education (1975). He was awarded prize by the Kenya Medical Association as the best qualifying undergraduate student during his studies at the University of Nairobi. Prof. Macligeyo has a rich experience in both academia and administration. He has been an honorary registrar in internal medicine and nephrology, taking an intensive attachment course in renal transplant medicine, haemodialysis, peritoneal dialysis and general nephrology, among others. Prof. Macligeyo has served as the Deputy Director, Board of Postgraduate Studies, and as professor in Internal Medicine, Department of Medicine, College of Health Sciences at the University of Nairobi.



PROF. MANDE, DEMESI JOHN

FKNAS/095/2004

PhD, MSc, BVM [UoN].

Prof. Mande is an Associate Professor and Academic Head of Veterinary Surgery and former Chairman of Department of Clinical Studies, Faculty of Veterinary Medicine, University of Nairobi. He holds Bachelor of Veterinary Medicine (1989), Master of Science in Clinical Studies (1993) and PhD in Clinical Studies (2003) degrees from University of Nairobi. He has over 30 years working experience in teaching, research, and clinical practice as Assistant Lecturer (1992), Lecturer (1993), Senior Lecturer (2004) and Associate Professor (2015 to date). He coordinates teaching, research and clinical practice of Veterinary Surgery to undergraduates and postgraduates, and has supervised 5 PhD students to completion (and 2 ongoing) and 11 Masters students to completion (and 4 ongoing). He serves as the Departmental Postgraduate Studies Coordinator, Member, Faculty Postgraduate Studies Committee, Chairman, Faculty Curriculum Development Committee, and is an active Member of the Faculty Board and College Academic Board. He is a Member of Kenya Veterinary Association, and Kenya Small and Companion Animal Veterinary Association. He is a Gold Life Member (No. 099), and Chairman, Veterinary Medicine Chapter, University of Nairobi Alumni Association. As an Accredited Peer-Reviewer, Commission for University Education, he has served on the Panel of Experts that reviewed BSc in Animal Health/Animal Science curricula for two Public Universities. As an Accredited Principal Investigator for Pest Control Products Board, he conducted clinical field efficacy trials for two antiparasitic drugs (Fipronil - Norbrook Ltd and Advantix -Bayer Animal Health EA Ltd), which are registered for use on dogs in Kenya. He has over 12 years of senior administrative and corporate leadership and governance experience, having served as Chairman, Department of Clinical Studies, University of Nairobi (2013-2015), Director, Kenya Dairy Board (2006-2009), and Elected Director, Kenya Veterinary Board (2012-2018). He is a Member, Internship Committee and Adhoc Committee on Development of Guidelines for Televeterinary Medicine, Kenya Veterinary Board. Prof. Mande participated in formulation of the Veterinary Surgeons and Veterinary Paraprofessionals Regulations 2013, Veterinary Surgeons and Veterinary Paraprofessionals (Code of Ethics) Regulations 2015, Veterinary Surgeons and Veterinary Paraprofessionals (Veterinary Medicines Directorate) Regulations 2015, Revised Harmonized Curriculum for Artificial Insemination and accompanying Training Modules, 2014, Minimum Standards and Guidelines for Certificate, Diploma and BSc. in Animal Health and Production and Bachelors degree in Veterinary Medicine, 2013 and Guidelines for Inspection and Accreditation of over 20 Animal Health Training Institutions and 2 Veterinary Schools, and the Veterinary Internship Guidelines. He has over 40 peer-reviewed publications in international scientific journals and is recipient of the International Veterinary Radiology Association (IVRA) Travel Fellowship (2003), Veterinary Academia Award (2009) by Kenya Veterinary Board/Kenya Veterinary Association, and the University of Nairobi Scholarship (1989). He is a former Editor-In-Chief, Kenya Veterinarian.



PROF. MWANG'OMBE, JUNIAHS NIMROD

MKNAS/ 101/2004

PhD [London], MMed, MB ChB. [UoN].

Prof. Mwang'ombe was born on August 25, 1951 in Mombasa, Kenya. He attended Buxton Primary School and Allidina Visram High School. He then joined Nairobi school for EAACE qualification. He holds Bachelor of Medicine, MB ChB, University of Nairobi Medical School, Kenya, and Doctor of Philosophy in Neuro-Oncology, University London, 1990. Some of his achievements include: research in Tropical Neurosurgery; tuberculomas, brain abscess, frontal encephaloceles, craniovertebral anomalies; research in Induction of tumor differentiation as a tool in chemotherapy of gliomas. He is an international Fellow at McMaster University, Congress of Neurological Surgeons of United States of America, 2002. Prof. Mwang'ombe remains one of the most outstanding Kenyan neurosurgeon and consultants, having had an experience serving at the National Hospital for Neurology and Neurosurgery, Institute of Neurology, London and Professor of neurosurgery at the College of Health Sciences, University of Nairobi.



PROF. OBURRA, OUMA HERBERT

MKNAS/ 107/2004

ENT-HN (Surgery), FRCS, MMed, MB ChB [UoN].

Prof. Oburra is a surgery professor. In 1984 - 1987 he was at King's College Hospital, University of London. He was awarded Fellowship of the Royal College of Surgeons of Edinburgh in Otorhinolaryngology - FRCSE (Oto), March 1 1987. In 1982 - 1984 he served as a Resident at the Ear, Nose and Throat, Head and Neck Surgery Unit at Kenyatta National Hospital. In 1978 - 1982: University of Nairobi, Kenyatta National Hospital Campus. Postgraduate training in general surgery. He was awarded Master of Medicine in Surgery- MMed Surgery Nairobi, December 1983; 1971 - 1976: University of Nairobi, Undergraduate training in basic Medicine. Awarded MBChB, Nairobi, October 1976.



PROF. OBEL, K. O. ARTHUR

FKNAS/ 030/1994

PhD, M.D (UoN)

Prof. Obel, a Kenyan scientist, identified the first cases of Human Immunodeficiency Virus in Kenya and treated many AIDS patients. Professor Arthur Obel received his PhD in Therapeutics from the University of London in 1978. He then received his M.D. in Clinical Medicine from the University of Nairobi in 1987. Obel was head of the Public Administration

of the Kenya Institute of Administration in 1990. He also had the position of Chief Research Officer of the Kenya Medical Research Institute (KEMRI) from 1989 to 1991. Obel later became the Chief Scientist of the Office of the President of Kenya from 1995 to 1999. This high position in government allowed him to attain many funds for his research. Being in a respectable position also allowed him to have many close friends that were high ranking government officials that helped him influence the direction of science in Kenya.



PROF. NDEGWA, MAINA JOHN

MKNAS/ 046/1994

BVM (UoN), PhD (Liverpool).

Prof. Ndegwa was born on September 21, 1950 in Nyeri, Kenya. He is the former Chairman, Department of Veterinary Anatomy, University of Nairobi. Prof. Ndegwa has been listed as a noteworthy Veterinarian by Marquis who's who. He is a Fellow Royal Society London, Japanese Academy of Sciences. Member also of the International Committee on Avian Nomenclature and New York Academy of Sciences.



DR. OSIR, ONYANGO ELLIE

MKNAS/ 070/1996

BSc (UoN), PhD (Arizona).

Dr. Osir is the senior program specialist of International Development Research Centre, Ottawa (IDRC). He has over 73 publications in peer reviewed journals. He has served as the head of the ICIPE Department of Molecular Biology and Biotechnology (MBB). He has served: 1) to provide molecular biology research support for the 3 ICIDR projects: Larval Ecology, Behavior, and Vector Competence, 2) to provide training support for ICIDR team members and visiting national and international collaborators, and 3) to provide linkages with an international network of insect molecular biologists and to assist with publication of papers and presentations of research results.



DR. GIKUNJU, KANGAGI JOSEPH

MKNAS/ 085/2004

PhD, MSc., BVM. (UoN).

Prof. Gikunju did study in the year 1984-1988: University of Nairobi, Bachelor of Veterinary Medicine (BVM); 1989-1992: University of Nairobi, MSc. Pharmacology and Toxicology. Thesis title: "Fluoride in water and fish from the Great Rift Valley Lakes in Kenya", Department of Public Health, Pharmacology

and Toxicology, University of Nairobi, supported by the Norwegian Agency for Development (NORAD KEN 046) project, Kenya. From 1998 – 2002 he studied for his Ph.D in Pharmacology and Toxicology at the University of Nairobi. He has published more than 20 papers in peer reviewed journals.



PROF. ONYANGO, WAMAYI DANIEL

MKNAS/ 114/2004

PhD, MSc., BVM [UoN].

Prof. Onyango was born in 1958 in Siaya County, Kenya. He obtained his early education in the local county schools namely Lusi Primary and Maranda High School from where he proceeded to Nkubu High School, Meru County for A-levels. He subsequently joined the Faculty of Veterinary Medicine, University of Nairobi from where he graduated with a Bachelor of Veterinary Medicine degree in 1986. Upon graduating, he served as a Veterinary Officer in the Kenya Civil Service up to 1988 when he resigned to re-join the Department of Veterinary Anatomy and Physiology as an Assistant Lecturer. He rose to become a Lecturer, Senior Lecturer, and Associate Professor in the same department in 1992, 2002, and 2021 respectively. He has published several journal articles in highly regarded peer-refereed journals, contributed 7 book chapters in highly acclaimed books and authored 2 university level books. In addition, he has supervised a number of post-graduate students. His research interests centre on reproductive biology of mammals and other chordates and, in particular, the morphology, toxicology and effects of selected plant extracts on male reproduction.



DR. WAKHUNGU, WANAMBACHA JACOB

MKNAS/ 122/2004

PhD, MSc. [UoN], PGDip [Edinberg], BSc [UoN], OM.

Dr. Wakhungu was born in 1957. He is currently working at University of Nairobi as a senior lecturer specialized in research and development in Animal Genetics/Breeding and Production Systems Analysis. He has been lecturing for over 20 years. He has been previously a research officer in Kenya Agricultural Research Institute in the period 1981-1988. He has been involved in various aspects of Animal Agricultural Research and Development linked to livestock sub sector in Kenya and Eastern Africa Region. He is currently a consultant geneticist to the Central Artificial Insemination Station (CAIS) Sire Selection and Breeding Committee and CAIS Strategic Planning Committee. In addition, he is the consultant geneticist to Animal Embryo-Transfer Biotechnology Secretariat of the Ministry of Livestock Development. He has a BSc in Agriculture and MSc and PhD degrees in Animal Science from the University of Nairobi. He is excellent in computer skills and lectures biostatistics to both undergraduate and graduate

students. He has authored or co-authored over 30 peer reviewed research papers published in relevant Scientific Journals. Currently he is a recognized Member of The Kenya National Academy of Science and Fellow of American Biographical Institute receiving the American Order of Merit (OM) in 2008.



PROF. BADAMANA, S. MOHAMMED

MKNAS/ 125/2007

PhD, MSc. (UK), BVM & S (Mosul), Dip. Anim. Husb. (Egerton).

Prof. Badamana is an accomplished scholar having over 22 publications in peer reviewed journals after obtaining a Ph.D. in Forage Utilization by Dairy Goats from Reading University – UK. Prof. Badamana served as the Chairman of Department of Animal Production (2004-2013) at the University of Nairobi and the Director of World Assembly of Muslim Youth East Africa (1994-2001). In addition to being a member of the Shariah Supervision Board of East Africa Bank, he is also the Chairman of the Shariah Advisory Board of Gulf African Bank Kenya and Kenya Re-Takaful. As an academicians, he has authored many papers and articles on Islam and has attended many International Islamic conferences held in Jordan, Egypt, South Africa, Kenya, and Saudi Arabia. Prof. Badamana is also the Islamic visiting Professor for Quranic Arabic, Islamic Laws in many Public Universities, conferences, seminars, and Mosques in Kenya. Moreover, he broadcasts different Islamic and question/answer program on Kenya Broadcasting Station. He is also a certified Shariah Advisor and Auditor (CSAA) from Accounting and Auditing Organization for Islamic Financial Institutions (AAOIFI), Bahrain.

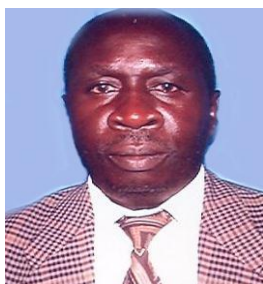


PROF. KOECH, KIPKEMOI JOEL

MKNAS/128/2007

PhD [UK], MSc. [Aligarh Muslim University], BSc [Osmania University].

Prof. Koech was born in 1961. He is the Chairman of the Public Service Board, Kericho County. He is also a professor lecturing in the School of Science and Technology, Department of Biological Sciences, Moi University.



PROF. OWUOR, OTIENO BARACK

MKNAS/142/2007

BSc & MSc. (UoN), PhD (Moi University).

Prof. Owuor is a professor of plant breeding, Department of Applied Plant Sciences, at Maseno University (Since 2006). He was a research scientist

with ICRAF (1990-1994). Prof. Owuor has published more than 20 papers in peer reviewed journals in his area of research interest. Prof. Owuor, among his publications, has done a paper on Agronomic Performance of some Popular Commercial Watermelon Cultivars, an Introduction and a Landrace Grown on Dystric Nitisols under Sub-humid Tropical Conditions in Kenya. He has won a number of awards in his area, both nationally and internationally.



PROF. WAHITI, GITURU ROBERT

MKNAS/ 147/2007

B.Ed., MSc. (Kenyatta Univesiry), PhD (Wuhan, China).

Prof. Wahiti is the the current Director, Directorate of Sino-African Biodiversity Resource Conservation (SABREC) at Jomo Kenyatta University of Agriculture and Technology (JKUAT). Prof. Wahiti did a Bachelor's Degree in Education, Kenyatta University (1987-1990). Prof. Wahiti has B.Ed. in Science (Hons.); Major in Botany, Minor in Zoology. He further did a MSc. of Science in Botany (Plant Taxonomy and Biosystematics)-1996. He has a PhD in Botany (Plant Biosystematics and Conservation) - Wuhan University, China (2006). Apart from being the director SABREC, he is also an Associate professor (Plant Biosystematics and conservation) Botany Department Jomo Kenyatta University of Agriculture and Technology (JKUAT), since 2013. Prof. Wahiti has been integral in the formulation, solicitation for funding, and execution of research and development projects. Prof. Wahiti has served as an examiner for several PhD and MSc thesis in JKUAT and Wuhan University, China.



PROF. MAITHO, TIMOTHY

MKNAS/ 155/2011

PhD (London), MSc (UoN), BVM (UoN), EBS.

Prof. Maitho is a full Professor in Pharmacology and Toxicology of the University of Nairobi. Prof. Maitho obtained BVM and MSc Degrees from University of Nairobi, and a PhD Degree in Pharmacology and Toxicology from University of London. He has served as a Coordinator of MSc. Degree in Pharmacology and Toxicology in the Department of Public Health, Pharmacology and Toxicology. He has published 81 peer-reviewed scientific papers, 20 Abstracts and supervised 10 PhD and 58 Masters Students to completion. He has served in many Board of Examiners for Postgraduate Students in the University. He has served as a Director of Board of Postgraduate Studies, among other duties in the University. He has undertaken research and consultancies activities in his area of specialization. He has served as External Examiner and visiting Professor in several Universities and also in the National Codex Committee of Veterinary Drug residues. He was awarded Elder of Burning Spear by the State and Veterinarian of the Year award. He has also served as a Chairman of Board of Governors in a Secondary School and as a Member of District Education Board.



PROF. OMONDI, ABONG'O BERNARD

MKNAS/163/2011

PhD. [University of Fort, Hare], MSc. [Botswana], BSc. [UoN].

Prof. Omondi is an Associate Professor at Amoud University (Jaamacadda Camuud). His research interest is majorly in the areas of Microbiology, HSM, Quantitative and Qualitative Research, Statistics, Epidemiology and Antimicrobial Resistance Surveillance, Water and

Sanitation, Health Risk Assessment and Microbial Molecular Typing.



PROF. MAVUTI, MUEMA KENNETH

FKNAS/096/2004

PhD, PGCert. [Vienna], MSc., BSc. (UoN).

Prof. Mavuti received BSc (honors) in zoology from the University of Nairobi, post-graduate Certificate in limnology from the University of Vienna, Austria, MSc in aquatic ecology and PhD in hydrobiology and fisheries from the University of Nairobi. He was also awarded certificates in aquatic microbiology and water management from Israel, and in environmental impact assessment from the University of Aberdeen, Scotland, UK, as well as post-graduate training in applied aquatic microbiology and plankton ecology from the University of London, UK. His specialty and interest are on water resources science, hydrobiology and fisheries, aquatic ecosystem management and conservation; water quality analysis, natural resources appraisal and auditing; as well as environmental impact assessment and watershed management. Prof. Mavuti has served as a Coordinator and Founder Dean of the School of Water Resources, South Eastern University College (presently the South Eastern Kenya University), Coordinator of the Kenya Belgium Flemish Inter University Cooperation Project; Director of the Center for International Programs and links, University of Nairobi, and Chairman of the Department of Zoology. He has 73 scientific publications in refereed journals.



PROF. OKOTH, ADHIAMBO SHEILA

FKNAS/135/2015

PhD (UoN), MSc. (UoN), BEd (Kenyatta University), FRSB.

Prof. Okoth is a professor at the School of Biological Sciences, University of Nairobi. Prof. Okoth has 29 years of experience as a University lecturer, researcher and consultant. She teaches several applied biological courses to both undergraduate, open and distant learners (ODL) and postgraduate students. She has to date trained to completion and mentored 27

MSc and 7 PhD graduates. Prof. Okoth has attracted and coordinated several international and regional research grants such as the Sustainable Management of below Ground Biodiversity (CSM-BGBD) Project funded by UNEP-GEF. This was a global project involving seven developing countries: Brazil, Cote d'Ivoire, Indonesia, India, Kenya, Mexico, and Uganda, of which she was the national coordinator of the Kenyan chapter made up of five national institutions; EU Horizon 2020 -Linking East and West African Farming Systems Experience into a BELT of Sustainable Intensification (EWA-BELT). In 2009, she was one of the 70 winners of the first round of fellowship of the African Women in Agricultural Research and Development Program (AWARD) of the CGIAR Gender & Diversity funded by the Bill & Melinda Gates Foundation and the United States Agency for International Development.



PROF. WANJOHI, WACEKE

FKNAS/148/2007

PhD, MSc., B.Ed (KU).

Prof. Wanjohi is an associate professor of plant nematology in the Department of Agricultural Sciences and Technology, Kenyatta University, Kenya and also the founder Director of the Center for Capacity Development in Higher Education at the University. Prof. Wanjohi has conducted research on management of plant nematode pests: mainly root – knot and lesion nematodes on various crops in smallholder farming systems using various strategies. Besides, she has experience characterizing nematodes in subsistence farming systems. She has supervised several post-graduate students, developed resources for capacity building in plant nematology in the region and published widely in international refereed journals. Prof. Wanjohi has over 20 years of experience in university teaching where she instructs plant pathology related courses, developed several academic programs and established the university's first plant nematology lab. Prof. Wanjohi joined Kenyatta University in 1984 and obtained a Bachelor of Education (Science) (honours) degree in 1987. Due to her excellent performance in her undergraduate studies, she was awarded a scholarship in the same year by the Government of Kenya to study for a Master of Science degree in plant pathology at the same university. Again, due to her exemplary performance during her post graduate studies, she was appointed as a graduate assistant two years into her graduate studies in the same university (1989). Since then she has risen through the ranks to the current position of an associate professor in the Department of Agricultural Science and Technology. She conducted her Ph.D. studies in plant nematology partly at the University of Bonn in Germany with the support of the German government, through the German Academic Exchange Service (DAAD) sandwich program. Due to her outstanding contributions to science, Prof. Wanjohi was elected and admitted as a member to the Kenya National Academy of Sciences in May 2007 and was listed among the top 50 distinguished researchers at Kenyatta University in 2007. Prof. Wanjohi has several professional leadership roles. She is the founder director, center for capacity development in higher education at the University (established in June 2007),

and co-founded the Nematology Initiative in Eastern and Southern Africa (NIESA) in August 2005. This initiative is comprised of scientists from five countries in eastern and southern Africa who are involved in nematology research and training, together with three partners from similar organizations in the UK.



PROF. MWAJA, N. VASEY

MKNAS/166/2015

BSc. (Hons), MSc. (California), PhD. (Illinois), FRSB.

Prof. Mwaja was in 1954. He received his early education at Lower Chure Primary School and Nkubu High School in Meru County and attended Egerton College, Njoro in Nakuru where he attained a Diploma in Horticulture (Distinction). He received his B.Sc. in Agricultural Sciences and M.Sc. Agriculture (Plant Sciences) from California and Ph.D. degree from the University of Illinois at Urbana-Champaign in the U.S. He later joined the University of Illinois Natural History Survey as a Visiting Extension Specialist and Monsanto Agricultural Company in Missouri for Postdoctoral Research in weed science. Prof. Mwaja began university teaching and research in 1988 at Egerton University, Njoro. Vasey has had long standing in agricultural research and project management. He is a Management Consultant with Africa Investment Centre and President of Secure Capital Investment Limited, a venture capital and project financing group. He was previously a Senior Program Officer in Agricultural Development with the Bill and Melinda Gates Foundation in Seattle Washington USA. He held various senior positions with the private and public sector institutions in Kenya. Prof. Mwaja was the Chairman of National Commission for Science and Technology and Director of Kenya Plant Health Inspectorate Service. He spent 15 years in pesticide research in the U.S., Europe and Africa coordinated the FAO/CropLife International obsolete pesticides safeguarding program. He has published refereed scientific papers mainly in the area of plant biochemistry, horticulture, pesticides, crop physiology and presented scientific papers in international conferences and workshops. Prof. Mwaja served as the Technical Chairman of the National Research Task Force appointed by Kenya Government to advice on the establishment of the National Agricultural Research System (NARS), a member of Grants Advisory and Approval Committee of the Kenya Agricultural Productivity Program (KAPP) and Chairman of the Kenya Agricultural Productivity and Agribusiness Project (KAPAP) Research Proposal Review Advisory Committee (RePRAC). He served in the team that revised the Government of Kenya Strategy for Revitalization of Agriculture (SRA) and formulation of the Agricultural Sector Development Strategy (ASDS) to align the agricultural sector with the aspirations of the Kenya's Vision 2030. He is an active member of the project proposals review panel both nationally and internationally. Prof. Mwaja is an active member of the: Royal Society of Biologists (UK); International Society of Farming Systems Research and Extension; International Allelopathy Society; European Weed Science Research; Weed Science Society for Eastern and Southern Africa; Weed Science Society of America; International Society of Horticultural Science; and American Society of Horticultural Science.

Vasey's research interest is in crop ecophysiology and management. Prof. Mwaja is currently a member of the Council of Scientific Advisers at the International Centre for Genetic Engineering and Biotechnology in Trieste, Italy; member of the Advisory Board of Savida Agricom in Mumbai, India; and member of the Meru Economic and Social Council. He was admitted into the membership of Kenya National Academy of Sciences (KNAS) in 2015 and Fellow of Royal Society of Biologists (RSB) in the United Kingdom in 2016.



PROF. NTIBA, MICHENI JAPHET

MKNAS/172/2015

PhD (University of East Anglia), MSc (UoN), BSc (UoN), DBA, CBS.

Prof. Ntiba is currently the Chief Administrative Secretary, State Law Office and Department of Justice. Previously, he served as the Principal Secretary, State Department for Fisheries, Aquaculture and the Blue Economy, Ministry of Agriculture, Livestock and Fisheries. He has also served in the same capacity at the Ministry of Education, and as the Director of the School of Biological Sciences at the University of Nairobi. Prof. Ntiba has conducted research with numerous institutes and laboratories, such as the Kenya Marine and Fisheries Research Institute, and the Centre for Environment, Fisheries and Aquaculture Science, Lowestoft Laboratory, Suffolk, United Kingdom. He holds a BSc in Biological Sciences and a Master's degree in Hydrobiology from the University of Nairobi and a PhD in Fisheries Biology from the University of East Anglia, United Kingdom. He was awarded Doctor of Business Administration (DBA) specializing in Fisheries Management (Honoris Causa) of Commonwealth University, Dubai. He is Fellow of the Commonwealth Academy of Leadership and Management (CALM) awarded by the Commonwealth University, United Kingdom. He started his professional career at the University of Nairobi as a Tutorial Fellow in the Department of Zoology in 1989 and rose to positions of lecturer, senior lecturer and associate professor in 1990, 1993 and 1997, respectively. He also served as the first Executive Secretary, Lake Victoria Fisheries Organization (LVFO) from 1977 to 2002. He served also as the Chairman, Department of Zoology, University of Nairobi (2004–2008) when he was appointed Permanent Secretary, Ministry of Fisheries Development. He has supervised many projects and programmers and trained a combined total of 31 students at Masters and Doctor of Philosophy degree levels, examined over 40 theses from various universities nationally and internationally and contributed to over 50 scientific publications. He has also contributed to policy development and implementation nationally and internationally. Prof. Ntiba is a member of the International Society for Mangrove Ecosystems (ISME) and the Scientific Advisory Committee of the West Indian Ocean Marine Science Association (WIOMSA).



PROF. SIAMBA, N. DONALD

MKNAS/174/2015

PhD (Moi University), MSc., BVM (UoN).

Prof. Siamba is currently an Associate Professor of Microbiology and Biotechnology at Kibabii University. Prof. Siamba attained his early education at both Kitale Day Sec. School (KCE) and Kapsabet Boys High School (KACE). He then proceeded to the University of Nairobi where he studied both BVM (1988) and MSc (1994) degrees in Veterinary Medicine and Vet. Pathology & Microbiology respectively. He later went to Germany where he obtained his Post Graduate Certificate in Animal Health and Production Management and later Moi University for Doctor of Philosophy in Zoology- Molecular Epidemiology of Parasites, before joining Masinde Muliro University of Science and Technology as a senior lecturer of Microbiology and Biotechnology. He worked at KALRO (formally KARI) as Research Scientist and Deputy Centre Director. During his time at KARI, Dr. Siamba contributed to the development of the KARI Indigenous Chicken and Kenya Dual Purpose Goat (KDPG). He also helped in isolating and characterizing bacterial and fungal strains with industrial potential as source of anthelmintics and antibiotics. He spearheaded the establishment of Jude Gates Academy for Underprivileged with the support of Christian Relief Fund (CRF). Prof. Siamba won World Bank scholarship award for PhD studies at Moi University and Certificate of Excellence in recognition of outstanding performances at 6th KARI Scientific Conference. He believes in social change and therefore motivated by collective inquiry, actions and translational innovations that integrate and move beyond discipline-specific approaches to addressing common social problems.



PROF. KAHINDI, P. H. JAMES

MKNAS/177/2015

PhD (University of Sussex), MSc. (UoN), BSc. (UoN).

Prof. Kahindi joined Pwani University as the DVC (Academic and Students Affairs), from the United States International University (USIU) where he served as the Associate DVC (Academic Affairs). He is a professor of natural sciences with extensive research and managerial experience in microbial biotechnology; in particular biological nitrogen fixation; and microbial control of pests and vector insects. In addition he has wide experience in environmental impact assessment and environmental audit. Prof. Kahindi received his doctorate in microbiology from the University of Sussex, UK in April 1994. The research highlighted the “Efficiency of Nitrogen fixation in *Azotobacter chroococcum*” under a variety of environmental and physiological conditions. He did his Bachelors and Masters Degree courses at the University of Nairobi. His area of specialty is environmental conservation and biotechnology. Since then he has undertaken various research activities among them the GEF funded CSM-below ground biodiversity project which was implemented in seven

tropical countries namely; Brazil, Cote d' Ivoire, India, Indonesia, Kenya, Mexico and Uganda. He contributed enormously in the development of Bacillus Thuringiensis (BT)-based biopesticide for adoption by Kenyan small-scale farmers as well as the search for stable biocatalysts from extremophiles for the utilization of renewable raw materials. Prof Kahindi has published four book chapters, and over 20 peer reviewed articles and conducted various consultancy works such as the Rehabilitation of the Marula Quarry in Gilgil, Kenya, environmental impact assessment for the installation of an incinerator in Ruai area Nairobi, initial environment examination report For USAID/Kenya, and the preparation of the policy for regional development authorities in Kenya, among others. Currently, Prof. Kahindi is involved in various environmental management and conservation projects. Prof. Kahindi joins Pwani University at a time when the institution has begun to implement strategies to modify its approach to teaching and learning. His vast experience as an administrator in a private university is set to add value to programmes offered at Pwani University.



PROF. NETONDO, W. GODFREY

MKNAS/178/2015

PhD (Maseno University), MSc. (UoN), BSc. (UoN).

Prof. Netondo was born in 1963. He is a Professor of Botany (Plant Physiology), Maseno University. His early education began in 1971 at Kimilili Friends Yearly Meeting (FYM) primary until 1977. He joined Friends School Kamusinga (FSK) in 1978 where he studied both 'O' and 'A' Levels until 1983. He pursued his BSc (1988) and MSc (1991) at the University of Nairobi. He graduated with PhD Maseno University in 2001 in first graduation when Maseno became a fully fledged university. The master's degree was supported by the German Academic Exchange Service (DAAD)/University of Nairobi staff development scholarship while PhD was funded by DAAD scholarship. In 2002 he received a six months DAAD postdoc research scholarship tenured at the department of Plant Cell Physiology, University of Giessen, Germany where he worked in the lab of Prof. Aart van Bel. His first employment was as a Fisheries Officer in the Ministry of Regional Development as a Fisheries Officer, a stint that lasted six months (June-December, 1991). Thereafter he joined the department of Botany of the then Maseno University College in 1992 at the level of Tutorial Fellow. He rose through the ranks from Tutorial Fellow, Lecturer, Senior Lecturer, and Associate Professor to Professor in 2013. He has held various administrative positions including examination and timetable coordinator (9 years), Departmental Postgraduate committee Chairman (3 years), Chairman of Department (9 years) and dean. Prof. Netondo is a member Kenya DAAD Scholars Association (KDSA) and has held the position of Secretary, KDSA, and Maseno Chapter. Prof. Netondo's research interest is in the broad theme of environmental plant stress physiology. He also has a special interest in agro-biodiversity conservation and ecosystem services nexus. He has to date published more than 30 refereed scientific papers. He has attracted research funds for various research projects such as IDRC, SIDA/VICRES and IFS. One such project was on

“Bamboo Production as an Alternative Crop and Sustainable Livelihood Strategy among Smallholder Tobacco Farmers in Kenya”, funded by the International Development Research Centre (IDRC-Canada (2006-2012). This project introduced bamboo plants in the tobacco growing South Nyanza areas of the lake Victoria Basin and the science and use/application of the crop was sensitized to the farmers. Prof. Netondo has supervised 13 masters and 4 PhD students to completion. He has also served as examiner of more than twenty theses. He has also served as external examiner for various universities in Kenya, for both undergraduate and postgraduate coursework. He has presented papers in various conferences, workshops and symposia.



PROF. WALINGO, K. MARY

MKNAS/179/2015

PhD (India), MSc. (UoN), B.Ed. (Kenyatta University).

Prof. Walingo has risen from a humble beginning – lecturer to full professor. In these capacities she has facilitated numerous tutorials to both undergraduate and postgraduate students. During these periods she gained substantial experience as a researcher, an academician, an administrator, a manager and a leader. Professor Walingo has served Maseno University diligently both academic and administrative departments since its inception in 2001. Before then she served Maseno University College in the same capacities. Throughout her professional career, Professor Walingo has held administrative appointments at Maseno University. She has moved through ranks from Chair of Department, Director SOFCONSTEC, Associate Director School of Public Health and Community Development, Director City Campus, Acting Deputy Vice Chancellor, Administration and Finance to Deputy Vice Chancellor, Administration and Finance. In her capacity as the Director City Campus, she developed a functional student and financial record system which created efficiency, effectiveness and customer satisfaction. The University realised a tremendous increase in its revenue collection during her tenure at City Campus. Professor Walingo is currently the Vice Chancellor, Maasai Mara University. Despite the huge responsibility, she supervises postgraduate students. Prof. Walingo has several publications in peer reviewed journals, at least 2 books already published, contribution in several book chapters, book manuscripts in the process and three calls for publication co-operation. She is also a journal reviewer. She has attended several conference proceedings both regional and international as a presenter/facilitator. A graduate (B.Ed, Home Economics, *1st class honours*) of Kenyatta University. Prof. Walingo earned a master’s degree in Applied Human Nutrition from University of Nairobi and earned a Doctor of Philosophy (PhD) in Food and Nutrition major and Agricultural Extension minor (*First Prize Top Student Award*) from Acharya N.G. Ranga Agricultural University-Hyderabad, India.



DR. ATERA, ATUTI EVANS

MKNAS/180/2015

PhD (Kobe, Japan), MSc (Japan), BSc. (UEAB).

Dr. Atera was born in 1968. Dr. Atera is the Deputy Director, Ministry of East African Community Affairs & Regional Development. He attended Nyansabakwa Secondary School, Nyamira County and Chianda High School, Siaya County, after which he proceeded to the University of Eastern Africa, Baraton (UEAB) for his B.Sc. degree in Agriculture (Crop and Soil Science). Dr. Atera later joined Kobe University, Japan for both his MSc and PhD degrees in Agronomy (weed science). He started his working career as a rice extension officer with West Kenya Rain-fed Rice Development Project (WKRRDP), which was funded by African Development Bank (ADB) in 1995 before joining Lake Basin Development Authority (LBDA) and its business wing, Lake Basin Development Company (LBDC-Rice Mill) in 1988. He served as the Ag. Managing Director, Lake Basin Development Authority (LBDA) from the year 2016 to 2019. Among his achievements, is the branding of rice milled at LBDC, and of paddy purchased from farmers in western Kenya. Dr. Atera was a pioneer of NERICA (New Rice for Africa) rice research of four NERICA cultivars in the country. Evans is currently the Regional Manager with LBDA charged with the responsibility of initiating and coordinating agricultural, fisheries, environmental activities, as well as networking with other stakeholders to promote development and implementation of research activities. He was a research fellow of International Cooperation Centre for Agricultural Education (ICCAE), Nagoya University, Japan. Dr Atuti has published over ten scientific papers in Peer reviewed international journals and books in the area of rice production and *Striga* weed infestation and control. He developed guidelines on upland rice cultivation in Kenya, a rice manual published by JICA and Ministry of Agriculture, Kenya. Since 2003 he has been conducting research in agro-ecosystems, using relay crop legume and organic/inorganic soil fertilization. Dr. Atera has special interest in parasitic weeds studies, *Stira hermonthica* and *Alectra vogelii*, particularly on their control as they are the greatest biological constraint to food production.



PROF. IRUNGU, WACHUHI LUCY

FKNAS/182/2015

PhD, MSc. (Liverpool), BSc. (UoN), FRSTM&H, KIM.

Prof. Irungu graduated from the University of Nairobi with a BSc First class honours degree (Entomology). She holds an MSc in Entomology and Applied Parasitology and a PhD in Entomology, both from the Liverpool School of Tropical Medicine, University of Liverpool having been awarded Commonwealth Fund for Technical Cooperation and Association of Commonwealth Universities (ACU) scholarships respectively. Prof Irungu joined the International Centre of Insect Physiology and Ecology (ICIPE) in August 1978 as a graduate research scholar during

which time she pursued her MSc and PhD studies at the Liverpool School of Tropical Medicine, University of Liverpool. During this time, she carried out research on vectors of Leishmaniasis and Filariasis. Prof. Irungu joined the Department of Zoology, University of Nairobi as a lecturer in 1988. She served as Chairman of Department of Zoology from 1999 to 2004 and was appointed Principal for the College of Biological and Physical Sciences in 2004 a position she held until March 2011 when she was appointed the First Deputy Vice Chancellor (Research Production and Extension), following a competitive process. Prof. Irungu assumed the post of first Vice Chancellor of Machakos University on 20th February 2018. In 2011, she was a member of the Higher Education Task Force and chaired the Science, Technology and Innovation Committee which developed the Science Technology and Innovation Bill, later enacted as the STI Act 2013. She belongs to several professional organizations, has served as a member in several boards and is currently the Chairman of the Academic and Management Board KWSTI, Board member JRS Biodiversity Foundation (USA) and President of EARIMA. Prof Irungu is a Fellow of the Royal Society of Tropical Medicine and Hygiene and Fellow of the Kenya National Academy of Sciences and a member of the Kenya Institute of Management. Prof. Irungu is a vibrant researcher in vector biology and host-vector-parasite relationships with specific interest in malaria vectors and parasites of neglected diseases. She has published extensively in refereed journals and has mentored and supervised several postgraduate research students. She continues engaged in research and supervision of postgraduate students to date, in addition to promoting innovation.



DR. ANDIKA, OTIATO DARIUS

MKNAS/184/2015

PhD (Germany), MSc. (Maseno University), BSc. (Maseno University).

Dr. Andika is currently a senior lecturer in the Department of Plant, Animal and Food Sciences, School of Agriculture and Food Sciences at Jaramogi Oginga Odinga University of Science and Technology (JOOUST).

He is a horticulturist by profession with emphasis in plants mineral nutrition, soil fertility and environmental horticulture. He has been involved in university teaching since 2003, starting as a graduate assistant at Maseno University and currently senior lecturer at JOOUST. His research focus has been cropping systems and their influence on mineral nutrients requirement of horticultural crops systems and their influences on mineral nutrients requirements of horticultural crops in tropics. He is also interested in the development of integrated nutrients management packages for African indigenous vegetable. He has vast experience in research on resource use efficiency and intercropping systems, monitoring of heavy metals pollution (lead) in water systems, promotion, utilization and marketing of African indigenous vegetable and green house production of high value horticultural crops. Currently, he is involved in several research projects focusing on improving small holder farmer as well establishing optimal agronomic packages for various horticultural crops and seed systems for African indigenous

vegetable. His focus is to contribute to knowledge on optimal crop production, mentoring young upcoming scientists and improvement of small holder farmers.



PROF. AYIEKO, OWUOR MONICA

MKNAS/185/2015

PhD 2 (Illinois), PhD 1 (Illinois), MSc. 2 (Illinois), MSc. 1 (Illinois), BSc. (University of Maryland).

Prof. Ayieko is Professor of Consumer Sciences at the Jaramogi Oginga Odinga University of Science and Technology (JOOUST), in the School of Agricultural and Food Sciences. She holds a BSc. Degree in consumer and community studies, and MSc and PhD degrees in family and consumer economics. She has valuable knowledge on time use and farming systems in Kenya following her MSc and PhD theses research at University of Illinois, USA at the College of Agriculture and Consumer Studies. She worked in the field as an extension worker for 15 years before going for higher degrees and later joining the university system (JOOUST) as a lecturer cum researcher. She developed keen interest in the use of edible insects for food security, particularly for households along the Lake Victoria region which normally have plenty of edible insects. She has published several academic and general documents on insects as food and feed. She is currently working with farmers to promote commercialization of the same at the farm levels. She has successfully developed several processed products of edible insects and is attempting rearing insects as a pilot project for sustainability. Through the effort of Professor Ayieko, JOOUST is a proud recipient of the coveted ACE II World Bank funding to set up Africa Centre of Excellence in Sustainable Use of Insects for Food and Feed. The project will work with local, regional and international partners to develop research and quality of higher education; promote insects for food security and help manage our environment.



DR. OGOLA, ODUOR JOSEPH HENRY

MKNAS/186/2015

PhD (Tottori, Japan), MSc. (Japan), BSc. (Egerton).

Dr. Ogola is a PhD graduate of the United Graduate School Agricultural Sciences (USGAS), Tottori University (Japan), under the fellowship of the Japanese Government (MONBUKAGAKUSHO: MEXT). His PhD research work focused on the molecular identification and structure-based characterization and enzymological analysis of a first bacterial DyP peroxides with potential bioremediation application on recalcitrant synthetic dyes from industrial waste waters. His MSc study focused on life science and biotechnology at Faculty of Life and Environmental Sciences, Shimane University. Prior to studying in Germany, he graduated from the Egerton University, Kenya (BSc Dairy Science and

Technology). In 2010, he joined the Bondo University College as lecturer in the School of Agricultural and Food Sciences where he was involved in teaching, research, and capacity building. In 2011, Dr. Ogola undertook a postdoctoral research fellowship under the Global COE Programme; Advanced Utilization of Fungus/Mushroom Resources for Sustainable Society in Harmony with Nature, of the United Graduate School of Agricultural Sciences, Tottori University, Japan, to develop DyP enzyme cocktails by protein engineering that are optimized for bioremediation of specific recalcitrant aromatic wastes under industrially relevant conditions. Currently, Dr. Ogola is a senior lecturer (Biochemistry), Jaramogi Oginga Odinga University of Science and Technology (JOOUST) and the Coordinator of Training and Mentorship (Research). He also doubles that as a senior research fellow at the University. His research work is done in collaboration with International Institute Zittau, TU Dresden, Germany. His areas of specialization are enzymology, protein purification, protein characterization, applied molecular biochemistry, microbiology, bioscience and biotechnology, with emphasis in solving environmental problems (bioremediation), enzyme and protein engineering technologies, identification and utilization of bioactive synthetic compounds from microorganisms and dairy product quality and value chain addition, which have been authored in several publications.



PROF. OLUBAYO, M'MOGI FLORENCE

MKNAS/195/2015

PhD (UK), MSc. (UoN), BSc. (UoN), MBS.

Prof. Olubayo is an agricultural scientist and associate professor of Agricultural Entomology with emphasis in integrated crop pest management, post-harvest pest management and agricultural technology transfer, at the University of Nairobi. She has a wide research experience in crop protection systems. Her field of research includes participatory rural approaches (PRA) in the transfer and adaptation of agricultural technologies for sustainable agricultural production, including training agricultural agents and farmers in pest recognition and management. She is quite knowledgeable in project development, co-ordination, implementation, monitoring and evaluation. Prof. Olubayo has been involved in needs assessment and project planning targeting rural women farmers through women groups. She has implemented many research projects and outreach activities with colleagues from different institutions and disciplines. Most of the projects have supported masters and PhD students. Prof. Olubayo has published over 80 papers and participated in many academic forums. As an administrator and a trainer, she has led and managed a team of over 30 academic staff and 20 technical staff in the disciplines of plant breeding, agronomy, horticulture, statistics and mathematics, entomology, plant pathology and plant nematology for 8 years. The duties also involved budgeting, staff appraisals, strategic planning, and development of curricula and training of undergraduate and postgraduate students, which she performed efficiently. Prof. Olubayo is a member of several professional associations nationally and internationally. She has served on many committees at different levels of

the University of Nairobi. She has good interpersonal skills that have enabled her collaboration in several projects and higher education links. She was instrumental in the start of girl-child education programme under Kenya Professional Association of Women in Agriculture and Environment (KEPAWAE) and actively involved in girl-child and young women scientist's mentorship through the organization and the CGIAR Gender and Diversity AWARD Programme.



DR. NYONGESA, MAINA JOHN

MKNAS/196/2015

PhD (China), MSc. (Maseno University), BSc. (UoN).

Dr. Nyongesa is a young scientist, currently working as an ecology lecturer at Jaramogi Oginga Odinga University of Science and Technology in Kenya. He holds a Doctor of Philosophy degree in natural science (ecology) from University of Chinese Academy of Sciences, China, a Master of Science in botany (plant ecology) from Maseno University and a Bachelor of Science (range management) from the University of Nairobi in Kenya. His research has focused on the responses of terrestrial ecosystems to global environmental change and resulting impacts on the natural resources on which humans depend. He has worked on ecosystem adaptation to abiotic stresses with the aim of unraveling the mechanism that allow for mutual and stable-coexistences of major life forms as well as their interaction with human activities. Having obtained GUCAS (Graduate University, Chinese Academy of Sciences) fellowship for the PhD, he worked on a project that involved simultaneous monitoring of desert ecosystem structure and function through flux network and reflected spectra in Chinese deserts. The site had been an important base for protecting the arid lands and contributing to global change research. He has since published several articles in refereed journals in addition to obtaining a PhD. As a natural resource scientist, he focuses on ecosystem manipulation with respect to competition for limited resources. He strongly believes that this is a necessary scepter for predicting future resources needs as well as for sustainable land use and response to climate change.



DR. KAMAU, LUNA

MKNAS/197/2015

B.Ed., MSc., PhD (Kenyatta University), FAAS, FTWAS.

Dr. Kamau was born in 1969. She is a female Kenyan scientist currently serving as a senior principal scientist and Deputy Director, Kenya Medical Research Institute (KEMRI) where she heads the Centre for Biotechnology Research and Development (CBRD). After completing her primary education at Trans-Nzoia Primary School and Secondary education at St. Brigid's School Kiminini and Alliance Girls' School Kikuyu, she joined Kenyatta University where she

obtained her B.Ed., and MSc. under the DAAD-German Academic Exchange Service Scholar scheme, and PhD under a CDC/WHO training programme. She also holds a Diploma in Leadership and Management from Strathmore University. Dr. Kamau began her career as a scientist as an Assistant Research Officer under the KEMRI/CDC programme in 1993, later joining KEMRI as a researcher and moving up the ranks to her current position as Chief Research Officer. Her main areas of research interest are malaria vector molecular and population genetic studies, vector behavior and ecology, insecticide resistance and development of new tools for vector identification and control. She has a good track record of acquisition of research funding and has built collaborations and network with researchers and institutions across the globe. Her notable contributions to science include the provision of baseline information on the status of insecticides resistance in Kenya in 2004 and subsequently, of insecticide resistance surveillance data in collaboration with the National Malaria Control Programme to inform policy on vector control. She also participated in the CDC large-scale ITN trial in Western Kenya in late 1990s- early 2000s, one of the first studies to demonstrate the efficacy of ITNs under programmatic conditions. Her other work has been on establishing the impact of long-term ITNs use on the genetic and population structure of vector species as a basis for understanding the factors that contribute to the resilience of the malaria transmission system and aid in the development of complementary control tools. Dr. Kamau has co-authored more than 43 peer review scientific articles, trained and mentored many students and has had numerous opportunities to contribute to diverse areas of leadership in research and policy issues at KEMRI and in the greater scientific environment. These include serving as Head of the KEMRI Biotechnology Research Programme, as Assistant Secretary of the KEMRI Internal Research Grants Award and Management Committee and as a member of the Scientific and Ethics review committee, and externally, as a reviewer for journal articles, grant applications and conference abstracts and facilitated workshops and symposia. Dr. Kamau has received various recognitions including the KEMRI Global Research Excellence Award (2020), KEMRI Gold (Nelion) Excellence/Merit Award (2015), membership to the Kenya National Academy of Sciences, KNAS (2018), Merit Award for Significant Contribution in Capacity Building and Research Support in Africa - PanAfrican Malaria Control Association, PAMCA (2019) and election as a Young Affiliate and Fellow of The World Academy of Sciences, TWAS (2008, 2018).



PROF. ODUMA, ACHIENG' JEMIMAH

MKNAS/198/2015

PhD (UoN), MSc. (UoN), BSc. (Tanzania).

Prof. Oduma was born in 1952. She is an Associate Professor of Physiology in the Dept of Veterinary Anatomy & Physiology, University of Nairobi and the Country Lead in an IDRC-Livestock Vaccine Innovation Fund (LVIF) funded project that is being conducted jointly in Kenya, Uganda and Rwanda. She undertook her formal university education at the University of Dar es Salaam, Tanzania where she studied botany, zoology with education, obtaining an upper second

class degree. She was employed immediately upon graduation at Alliance Girls High School as a biology teacher and head of department for six years after which she joined the University of Nairobi. She obtained her MSc and PhD degrees both in physiology both at the University of Nairobi. Her specialty is mammalian reproductive biology. While studying for MSc, Prof. Oduma was also working as administrator at the Reproductive Biology Unit, a research unit within the Department, which was then a WHO collaborating centre. As a lecturer and senior lecturer at the University of Nairobi, Prof. Oduma has led an active life both as an academician, researcher and external Examiner at Makerere University, Uganda. Her particular areas of interest are; the effect of toxins, endocrine disruptors and other xenobiotics especially pesticides on mammalian reproductive physiology and endocrinology; natural products/herbal medicines and their effects on mammalian reproductive performance and the value of nutritional supplementation, the management of HIV/AIDS, and in particular, the nutritional value of some traditional foods and their effectiveness in combination with/ without commercial supplements in the management of HIV/AIDS. Some of the research findings, several of which came from student postgraduate training have been published in 19 peer reviewed articles. She has also been called upon to review articles for several journals, namely; Journal of Medicinal Plant Research (JMPPR), International Journal of Water Resources and Environmental Engineering (JWREE), African Journal of Pharmacy and Pharmacology (AJPP), Direct Research Journal of Health and Pharmacology (DRJHP), Journal of Human Nutrition and Food Science (JHNFS and Direct Research Journal of Agriculture and Food Sciences (DRJAFS). For the purposes of training at postgraduate levels, Prof. Oduma has forged links and collaboration with various institutions namely, WHO, Institute of Primate Research (IPR)-Kenya, Meharry Medical College and University of Minnesota both of USA.



PROF. MUMERA, MUSUNDI LOUIS

MKNAS/205/2015

PhD (Illinois, USA), MSc. (USA), BA (USA).

Prof. Mumera was born in 1945. He has undertaken formal career training on Agronomy (Plant Sciences) with a specialization in Plant Physiology from the University of Illinois, Urbana Champaign, USA, in 1992. His mainstream career experience has been in academia as a lecturer, Professor and researcher at Egerton University with intermittent assignments as external examiner and supervisor of postgraduate students at the University of Nairobi, University of Zimbabwe and Moi University. Additionally, at Egerton University, he has served as Chair of Department of Crop Science, Dean of the Faculty of Agriculture and Director of the Board of Undergraduate Studies. These administration appointments earned him valuable experience in Curriculum development & implementation, Examinations as well as Staff, student and physical resource management. His research interest is focused in Plant Nitrogen nutrition & metabolism, Plant canopy radiation & photosynthesis in host-parasite interactions. Some of

the research findings have been published in refereed journals. In recognition of these contributions to research and scholarship, Prof Mumera was inducted into the *Membership of the Kenya Academy of Sciences* in 2015 and appointed as a Reviewer to *the Editorial Board of the African Crop Science Journal* since 1994. In collaboration with other scientists, he has mobilized resources in excess of \$ 2,111,066, largely from the Rockefeller Foundation, The European Union and the World Bank to support research and Staff development at Egerton University, Coffee Research Foundation and the Kenya Sugar Research Foundation. Besides, Prof Mumera has received training in Corporate Governance from KCA University, Center for Corporate Governance and the Kenya School of Governance with valuable exposure in institutional leadership as: Chair of Council of South Eastern Kenya University, 2013-17; Member of Council & Deputy Vice Chancellor (Admin. & Finance) at Egerton University, 2006-2011; Member of the Board of Directors Coffee Research Foundation, 2005-8; Member of the Technical Advisory Committee of the Sugar Research Foundation and Secretary to the Association of Governing Councils of Universities and University Constituent Colleges in Kenya, 2013-17.



PROF. KENYA, UNOMA EUCHARIA

MKNAS/206/2015

PhD (Nigeria), MSc. (Nigeria), MBA (Switzerland). BSc. (Nigeria).

Prof. Kenya is currently the Deputy Vice-Chancellor in charge of Planning, Administration and Finance, at University of Embu. She is a Professor of Biotechnology with expansive international experience and expertise on Biosafety and Biosecurity issues. Previously she taught at the Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, for over 10 years. During this period, she supervised over 30 postgraduate students and published several peer reviewed papers. She has attracted substantial grants that have benefited many students in the greater East African Region and fostered collaborative projects and partnerships that have contributed in strengthening capacity in different aspects of biotechnology. She is a very active player in the agricultural biotechnology sector in Kenya and served as a member of the steering committee under the Ministry of Agriculture, that developed the 'Agricultural Biotechnology Awareness Strategy for Kenya (2008)'. She was deeply involved in the discussions that culminated in the enactment of the Kenya Biosafety Act (2009) and has also participated on regional efforts at harmonizing these laws. As an educator, she has participated in many outreach activities to key biotech stakeholders including policy makers & technocrats, parliamentarians, scientists, teachers, farmers and the media. These activities have covered areas spanning General Biotechnology, Risk Communication (Safety of GM technology), Media Relations (for Scientists), the Art of reporting Science (for journalists), Policy formulations and Regulatory landscaping and Practice in Africa, with reference to adoption of GM Technology/Biosafety and Biosecurity. Prof. Kenya is a founding member of the Open Forum for Agricultural Biotechnology in Africa, a flagship project of the African

Agricultural Technology Foundation, headquartered in Nairobi, Kenya. On the international scene, she has been very active in the activities of the Biological Weapons Convention (BWC) and the Organization for the Prevention of Chemical Weapons (OPCW) and is a member of the Chemical Weapons Convention Coalition. Her thrust in these organizations is to articulate the need for increased capacity strengthening and enactment of laws that will enable African countries gain from international efforts by the global community in making everywhere safe for human existence.



PROF. SHIBAIRO, IGOSANGWA SOLOMON

MKNAS/207/2015

PhD (British Columbia, Canada), MSc. (UoN).

Prof. Shibairo was born in 1960. He is currently the Vice-Chancellor of the Kakamega-based Masinde Muliro University of Science and Technology (MMUST). After his early education at Kericho High School, Prof. Shibairo proceeded to the University of Nairobi where he obtained his B.Sc. (Agriculture) and MSc (Agronomy) degrees. He later progressed to the University of British Columbia, in Canada where he graduated with a PhD in plant science. He joined the University of Nairobi and taught agronomy and horticulture from 1989 to 2013 before taking leave of absence to take on a management position as a Deputy Principal (Academic, Research and Extension) at Kibabii University College (a constituent college of Masinde Muliro University of Science and Technology). Prof Shibairo is a member of the Horticulture Association of Kenya, African Crop Science Society, Soil Science Society of East Africa and the Food Science and Technology Platform of Kenya. He was the Chairman of Kenforum (the Kenya chapter of Forum for Capacity Building (RUFORUM)) from 2011 to 2013. Prof. Shibairo has taught for over 24 years at the Department of Plant Science and Crop Protection of the University of Nairobi. He has so far supervised 33 students at both masters and PhD levels. Prof Shibairo is an authority and lead researcher in leguminous, indigenous cereals and root crops. As a result of his work he has published over 50 scientific papers and co-authored a book and a book Chapter, mainly in agronomy and horticulture with a bias in postharvest biotechnology of root crops. Other than the scientific contributions, Prof. Shibairo has shown great abilities of leadership. He served as Dean of the Faculty of Agriculture of the University of Nairobi, and also as the Deputy Principal in charge of Academics, Research and Extension at Kibabii University College.



PROF. TUITOEK, JEBABAI PRISCA

MKNAS/209/2022

BSc. (USA), MSc. (Nebraska-Lincoln), PhD (Alberta, Canada).

Prof. Tuitoek was born in 1961 and educated to her secondary school level in what is now Baringo County and advanced level secondary education in Kabarak High School, Nakuru County. She obtained her B.Sc. in Biology with a minor in Chemistry, in 1985 from Oral Roberts University, Oklahoma, U.S.A, M.Sc. degree in Human Nutrition and Food Service Management in 1986 from the University of Nebraska-Lincoln, U.S.A. She then took up a position as Lecturer at Egerton University College (1987-1989) in the Department of Home Economics and Agriculture Extension. She proceeded to the University of Alberta, Canada to start her PhD in Human Nutrition which she completed in 1995. Prof. Tuitoek was a founder Chairperson at the Department of Foods, Nutrition and Dietetics at Egerton University, where she established both the undergraduate and postgraduate programmes. She supervised postgraduate students, researched, published articles and participated in capacity building especially in the areas of nutrition and academic quality assurance. She has also participated in consultancies in organizations such as UNICEF, World Vision and Gain among others. Her research and consultancies has been in Kenya and in the region including Uganda, Tanzania and Sudan. She has organized, participated and/or facilitated in various local and international workshops, seminars and conferences including for Global Nutrition Programme, International Union of Nutritional Societies (IUNS) and Information Technology for the advancement of Nutrition in Africa (ITANA) among others. She was instrumental in founding the Kenya Nutritionist and Dietetics Institute as an elected Council member. Prof. Tuitoek has participated in management in the University set up as Director of Quality Assurance at Egerton University, Deputy Principal at Machakos University College and now Deputy Vice Chancellor, Academic and Student Affairs at Muranga University of Technology. She also sits in the Quality Assurance Committee of the Inter-University Council for East Africa. Prof. Tuitoek's passion in contributing back to the community has seen her sit in a number of college and school boards. She has been the Chair of her high school Alumni Association which has overseen the sponsorships of bright children coming from economically challenged and marginalized communities. She is also involved in a socio-economic community based organization that is empowering over 100 groups of women in rural Kenya. Prof. Prisca J. Tuitoek is a Professor of Human Nutrition.



PROF. MATHOOKO, MUTISO FRANCIS

MKNAS/209/2022

BSc. (UoN), MSc. (UoN), PhD, (Okayama, Japan), JSPS.

Prof. Mathooko holds a Bachelor of Science degree in Food Science and Technology (Upper Second Class Honours), University of Nairobi, Kenya; Master of Science degree in Food Science and Technology, University of

Nairobi, Kenya; Ph.D. degree in Agriculture (Postharvest Agriculture), Okayama University, Japan and a Master of Business Administration degree, University of Nairobi. He is currently a Professor in the School of Agricultural Sciences at Machakos University. Prof. Mathooko has taught in various local, regional and universities in Food Science and Technology, Horticulture and Human Nutrition among others. He has undertaken considerable research in the disciplines mentioned above and published in high impact factor journals. He has attracted research funds from various local, regional and international funding bodies to support his research and extension activities. He has attended and presented scholarly and invited papers in many local and international meetings. Based on his research activities, Prof. Mathooko has won several awards including a two-year Japan Society for the Promotion of Science (JSPS) Postdoctoral Fellowship for Foreign Research in Japan (1997-1999) and was the first Kenyan to win this fellowship, a three-month Association of International Education, Japan Follow-up Research Fellowship, an eight-month JSPS Invitation Fellowship Program for Research in Japan (Long-Term) (April to December 2004) and three weeks Visiting Researcher Fellowships each at University of Zimbabwe, Sokoine University of Agriculture and Makerere University, respectively. He also served as External Examiner in these universities. He has experience in managing research and training programmes funds. He has supervised final year and postgraduate (M.Sc. and Ph.D.) students' research projects in various universities. Prof. Mathooko has served in university administrative and management positions including, the Founding Principal of Machakos University College, Acting Vice-Chancellor of Machakos University, Deputy Principal (Academic and Student Affairs) at the then South Eastern University College (SEUCO), Acting Deputy Vice-Chancellor (Academic, Research and Student Affairs) at the South Eastern Kenya University (SEKU), Founding Director, Directorate of Academic Quality Assurance, Ag. Dean, Faculty of Agriculture and as Chairman, Department of Food Science and Technology, all at JKUAT. Prof. Mathooko has been involved in mobilizing resources and soliciting financial support for capacity building from various stakeholders through proposal development, culminating in establishment of solid partnerships and linkages. Prof. Mathooko has undertaken consultancy/collaborative work in food security with organizations including ICRAF, GTZ, FAO, JICA, RELMA, TSBF, Natural Resources Institute, African Institute for Capacity Development (AICAD) and some food and allied industries. Prof. Mathooko continues to engage in research, student and staff mentorship, training and development of demand-driven academic programmes as well as in technology transfer and community service. From the aforementioned details, it is evident that Prof. Mathooko experience in research, teaching, academic programmes development, policy preparations, outreach programmes, university management, resource mobilization and community service at local, regional and international arena.



DR. AWANDU, SHAGARI SHEHU

MKNAS/212/2022

BSc. (Moi University), MSc. (Kenyatta University), PhD (Pretoria, South Africa).

Dr. Awandu is a research scientist who has designed, coordinated and conducted studies across diverse transmission settings in Africa to better understand the malaria transmission biology focusing on parasites and vectors. He holds a PhD in Biochemistry from the University of Pretoria, South Africa (2014-2019), Masters of Science in Immunology from Kenyatta University (2009-2012) and a Bachelor of Science (Botany and Zoology) from Moi University (2000-2004). He is currently a lecturer at Jaramogi Oginga Odinga University of Science and Technology (JOOUST)-Schools of Health Sciences and Biological Sciences. Dr. Awandu is a grounded academician with excellent mentorship skills and track record of successful supervision of local and international postgraduate students. Currently, he is the chair of the Department of Biomedical Sciences, spearheading projects funded by the EDCTP to train epidemiologists and biostatisticians as well as investigating the molecular epidemiology of SARs-CoV-2 transmission dynamics to inform home based care funded by the MRC of South Africa. Furthermore, he is a visiting scientist at the Kenya Medical Research Institute, Center for Global Health Research (KEMRI-CGHR) where his group is characterizing novel resident *Wolbachia* strains in the *Anopheles* species complex in natural settings in western Kenya highlands. Additionally, he leads the entomology component of an active ongoing surveillance of malaria parasites and vectors in Nandi South District to aid in subnational malaria elimination jointly with Indiana University. During his postdoctoral stint in the Netherlands with extensive field work in Burkina Faso, he developed a novel male and female gametocyte molecular marker for use in mosquito feeding assays, conducted complexity of infections studies in acute and chronic infections and performed detailed entomological assessments in a cluster randomized trial investigating two diverse experimental approaches of enhanced case management. His PhD built upon the experience acquired from laboratory research in malaria-endemic Kenya with the Internal Center for Insect Physiology and Ecology (ICIPE) and culminated with field research in pre-elimination settings of South Africa where he investigated the contribution of submicroscopic infections to ongoing residual transmission and recommended use of primaquine, a gametocytocidal drug to help the country accelerate towards malaria elimination. Importantly, his findings informed the South African Department of health policy and key strategy of including migrant farm workers in its malaria elimination agenda. His MSc study informed and influenced policy on the implementation of combined use of insecticide-treated bednets (ITNs) and indoor residual spraying (IRS) for malaria control in Kenya. He is passionate about communicating research findings to a non-specialist audience and regularly give radio interviews. His long-term goal is to strengthen African led research where he can contribute not only in offering training and mentorship possibilities to young African scientists but also in conducting impactful research by leveraging on the networks that he has built globally in addressing some of the public health challenges affecting the African continent.



PROF. ONYANGO, MIRUKA DAVID

MKNAS/213/2022

BSc. (Maseno University), MSc. (Maseno University), PhD (South Africa).

Prof. Onyango is currently an Associate Professor of Cell, Molecular Microbiology and Biotechnology at Maseno University, Department of Zoology. He has over 13 year research experience in the field of Cell, Molecular Biology and Biotechnology. His research interest are in the areas of Molecular epidemiology and antimicrobial drug resistance in gastroenteritis microbes in human and animals and Molecular mechanisms and regulation of genes in prokaryotes and eukaryotes. He has a Post-Doctoral qualification from the University of Kwazulu Natal in the field of Molecular Pharmacology and Drug discovery. He is the immediate Ag. Director of Science Technology and Innovation at Maseno University and also the co-ordinator of Cell and Molecular Biology activities in the department. He has attracted a number of research grants through competitive bids that have enabled him to develop, equip and initiate an operational Molecular Biology laboratory at the institution where he has trained over 5 PhD and 18 MSc students to completion. His expertise has been sort nationally and internationally as a reviewer of the National Research Funds-Kenya (NRF)(Health and Biological disciplines), National Consortium of Science, Technology and Innovation (NACOSTI) (Biological discipline) and as editor of a number of peer reviewed journals as well as adjudicator of science research projects to tertiary institutions. Due to his vast knowledge in his subject area, he has secured appointments by various university senates as external examiner for both undergraduate and postgraduate student's examinations and thesis. Prof. Onyango has published over 40 peer reviewed research articles and one university grade book and laboratory manual, 2 book chapters, and 1 policy brief. In addition, he has 3 published research project reports. He has attended over 15 research conferences and workshops for oral and poster presentations. He has equally organized 11 workshops and conferences nationally and internationally. He has several scholarship awards and nomination to the prestigious Marquis Who's is Who in the World; DAAD- Germany and the South Africa Medical Research Council. He is a member of several professional bodies like the International Brain Research Organization, European Society of Clinical Microbiology and Infectious Diseases, and a Task Force Member of Novartis Non-Typhoid Vaccine Development.



PROF. ONYANGO, MORAA CECILIA

MKNAS/214/2022

BSc. (UoN), MSc. (UoN), PhD (Wageningen, Netherlands).

Prof. Onyango is an Associate professor of Horticulture with over 18 years' experience in training, research and community outreach in the areas of crop production systems, postharvest handling of produce, standards and food safety. The main focus of her research work has been on African

traditional crops' production physiology, conservation and use; stress physiology and temperature-based modulation of growth and development in crops. She also has a wide experience in participatory farmer and end-user technology evaluation, selection and adoption in addition to systems intensification and market-led development. She has over 30 publications in various refereed journals and has supervised and mentored over 20 graduate students including Ph.Ds. She has been with the University of Nairobi for over 18 years as an academic member of staff in the Department of Plant Science and Crop Protection. Prof. Onyango received her PhD. in Horticulture from Wageningen University, the Netherlands. Her research interest was to develop sustainable production systems for African traditional vegetables to maintain their quality and improve yields to provide healthy diets and income to rural communities especially those of women in Kenya without compromising the environment. Prof. Onyango has wide expertise in Partnership Building and Resource Mobilization. She has participated in implementing research grants as either a principal investigator (PI) or a Co-PI in several grants and the most recent ones include; Food safety in produce from informal settlements in Kenya supported by the United States Aid for International Development (2020- 2022); Earth observation and environmental sensing for climate-smart sustainable agro-pastoral ecosystem transformation in East Africa (ESSA) supported by the European Union (2020-2024) and Capacity development for conservation and utilization of plant genetic resources for agricultural productivity, resilience and sustainable livelihoods in East and Central Africa supported by the World Bank/SIDA (2014/2018); Developing a secure food system based on well-adapted pearl millet genotypes in appropriate crop mixtures in Kenya supported by Kenya government through the National Commission for Science, Technology and Innovation (2013-2015) among others. Prof. Onyango, distinguishes herself as a scholar who embraces a systems thinking approach to create sustainable food systems as a means of achieving food security and nutrition through the application of a multifaceted and a multi-sector effort to achieve the highest quality of life for all leaving no one behind. She is a Co-chair of the Phytosanitary Standards, Food Safety and Consumption sub-Committee of the Horticulture Technical Working Group; a member of the Multi-Agency Food Safety Technical Working Group of the Ministry of Agriculture, Livestock and Fisheries and A board member of Organic Consumers Alliance.



DR. NGUTA, MWANZIA JOSEPH

MKNAS/217/2022

BVM, (UoN), MSc. (UoN), PhD (UoN).

Dr. Nguta is a Veterinary surgeon by training and Pharmacologist and Toxicologist by specialization. He is a Senior Lecturer at the Department of Public Health, Pharmacology and Toxicology (PHPT), University of Nairobi with nine (9) years' experience in undergraduate and postgraduate teaching and supervision. He holds MSc and PhD qualifications in natural product Pharmacology and toxicology from the University of Nairobi. In addition, he holds Postdoctoral qualifications from Noguchi Memorial Institute for Medical Research (NMIMR),

College of Health Sciences, University of Ghana, where he pursued drug discovery against zoonotic tuberculosis from natural products of plant biodiversity; specifically using whole cell assay and subcellular targets for lead compound identification and structural characterization of lead antimycobacterial compounds with rapid kill kinetics against latent, intracellular and active tuberculosis. His studies culminated in characterization of a new source steroidal sapogenin of spirostane type, solagenin (25S)-6 α hydroxy-5 α -spirostan-3-one), with selective activity (SI index: 65) against the pathogenic *Mycobacterium bovis* (ATCC, 35720) strain. Prior to the postdoctoral award by Bill and Melinda Gates Foundation (BMGF) through Noguchi Memorial Institute for Medical Research (NMIMR), he was a doctoral and later a postdoctoral fellow at the Department of Public Health, Pharmacology and Toxicology (PHPT), University of Nairobi, under support from Carnegie supported Regional Initiative in Science and Education, African Natural Products Network (RISEAFNNET) University of Nairobi Node, investigating medicinal plants for antiprotozoal activity. He has supervised three (3) doctoral students and ten (10) Master of Science students to completion. He has published thirty six (36) articles in leading peer reviewed journals and has thirteen (13) PubMed appearances. He has attended forty two (42) workshops/symposia and presented thirty one (31) papers in both local and international scientific conferences. He has a cumulative citation of 476, h-index of 10 and i10-index of 10. He has been awarded a total of nine (9) travel grants and three (3) research grants since his last promotion by both local and international institutions. He was ranked position ninety seven (97) among the top one hundred (100) Kenyan Scientist by Webometrics in March 2015. He is the American Society for Microbiology (ASM) Young Ambassador for Science to Kenya, 2017-to-date. Since 2017, he was appointed as an Early Career Reviewer (ECR), by the Centre for Scientific Research (CSR), National Institute of Health (NIH), Bethesda, USA. He has a special interest in bioassay guided isolation and structural characterization of selective bioactive compounds against zoonotic tuberculosis from natural products.



PROF. WAUDO, NDOMBI JUDITH

MKNAS/218/2022

BSc. (USA), MSc. (Iowa, USA), PhD (Alberta, Canada).

Prof. Waudo has a PhD from the University of Alberta, Edmonton, Alberta T6G 2G5, Canada (1989-1993); M.Sc. in Nutrition Education from Iowa State University, Ames, Iowa, USA (1982-1984) and a BSc. in Foods and Nutrition from the Central University College, Pella, Iowa, U.S.A (1978-1982). Prof. Judith Waudo Holds a PhD degree in Nutrition Education and is a full professor in the Department of Food, Nutrition and Dietetics at Kenyatta University. Has 36 years of teaching experience at Kenyatta University. Has 25 years of experience in Administration, having served as a Director of Catering and Accommodation Service Board, Director, Linkages, Chairperson, Hospitality and Tourism Management and Dean, Graduate School. Has served as chair of Curriculum committee at the Department of Food, Nutrition and Dietetics and as a member of Research Committee at the School of Public Health and Applied

Human Sciences. Currently, serving Director, Centre for Gender Equity and Empowerment, at Kenyatta University and as Hub Leader, Kenyatta University Women's Economic Empowerment Hub, Technical committee chair person for the African Center for Transformative and Inclusive Leadership (ACTIL); Chair, Steering Committee for the UNESCO's Chairperson at Kenyatta University; Chair Technical Committee for Academic Mobility at Kenyatta University and Chair, Kenyatta University School and Departmental Research Ranking Committee. A researcher in the area of nutrition, health and education with wide experience at national, regional and international levels.



PROF. OKEMO, OWUOR PAUL

MKNAS/220/2022

BSc, MSc. (USA), PhD (KU).

Prof. Okemo is a full professor of Microbiology at Kenyatta University since 2010, where he has been lecturing on various aspects of Microbiology for the last 32 years. During that period, he has specifically addressed areas in Medical Microbiology, Pathogenic, Environmental, Food microbiology, Microbial physiology, Medical Virology, and microbial genetics among others. He has also lectured at other Universities in Kenya such as Jomo Kenyatta where he taught medical Microbiology, and medical Mycology, Masinde Muliro and Maseno Universities where he taught general Microbiology. He has won several research grants and authored 87 articles in refereed journals, three book chapters, 31 Conference papers, and given talks at various fora in the area of Microbiology. Recently he won as a PI a Research grant to do some work on the Corona virus, particularly the local strains, their prevalence and relationship to other exotic strains. He is leading a team of researchers that include 2 Doctors from Kenyatta Hospital, 2 Doctors from KU Referral Hospital, 4 Doctors from KU Medical School, one Pharmacist and one research Scientist from KEMRI. However, Prof. Okemo's area of research interest is in Microbial resistance to drugs and the search for novel antimicrobial agents. In this regard he has been a World Bank Consultant in looking for novel compounds from Natural products to fight microbial resistance. He was given a grant by World Bank to train Herbal practitioners in order to prepare them for acceptance to be allowed to treat patients in Hospitals alongside conventional medical Doctors. He has therefore trained several herbal practitioners around the Republic of Kenya. Prof. Okemo was a lead researcher with the Inter-university Council of East Africa where he led a team of researchers from Kenyatta University, Makerere and Muhimbili University in Tanzania. His team was able to isolate and semi-purify compounds from Medicinal plants that inhibited the proliferation of Multi-drug resistant tuberculosis. Prof. Okemo has worked extensively with marginalized communities, especially the Samburu, Turkana, and Masai on indigenous knowledge of their Natural product's curative properties and practices. He was a lead Researcher with the Earthwatch Institute in this regard for 9 years. Prof. Okemo was Dean of Graduate School at Kenyatta University for 8 years from 2011 to 2019, has acted as DVC (F&D), DVC (Admin.) and is *currently* the Acting DVC (Academic) at Kenyatta University, a position he has been holding

on and off severally but this time since the substantive holder has finished his term Prof. Okemo has been in that position for the last 7 months. He was the CEO of African Biological Safety Association (AfBSA) for 7 years and the African representative on the International Biological Safety Association (IfBA) where he led the African delegation to the UN Tatugena protocol 1540 negotiation. He has recently been appointed to the Biological Safety Appeals Committee by the Education Cabinet Secretary in Kenya. He previously worked as the Secretary of the Kenya Society of Microbiology (KSM) and is an active member of the American Society of Microbiology. He was the Deputy Director, Quality Assurance of Sterling Withrop (an International Pharmaceutical Company in Kenya), a Senior Analyst at the Kenya Bureau of Standards, and Production Manager of Delmonte Corporation, Thika, Kenya. He got his PhD from Kenyatta University in Kenya, and did a post-doc for one year at Colorado State University as a Fulbright Scholar. He has an MSc and BSc in Microbiology from the University of Wyoming in USA where he was on the Deans Honor roll. Prof. Okemo has done collaborative research with and visited various Universities, including the University of Essen in Germany where he did part of his PhD research, Berlin Technical University, Michigan State University in USA, Makerere University and the University of Darsalaam. He is a member of the East African Inter-University Council Research team.



DR. MUKHOVI, MIKALITSA STELLAH

MKNAS/221/2022

B.Ed. (UoN), MA (UoN), PhD (UoN).

Dr. Mukhovi is a human geographer specializing in interface between natural environment and agricultural activities. She is a Senior Lecturer at the Department of Geography and Environmental Studies at the University of Nairobi, Kenya. She holds a Bachelor of Education degree (Hons), Master of Arts degree in agricultural geography and a PhD all from the University of Nairobi. Dr. Mukhovi's research interests are in Food systems social-ecological resilience, household food security, gender issues in agriculture, rural development, rural livelihoods, agricultural policy analysis, sustainable land management and climate change and agriculture. She has been involved in a wide range of multi-disciplinary research assignments and has widely published in peer reviewed Journals.



DR. OCHIENG'- ODERO, PATRICK JAMES

MKNAS/222/2021

BSc.(India), MSc. & PhD (New Zealand).

Dr. Ochieng'-Odero is a scientist with keen interest in the place of science, technology and innovation (ST&I) in economic development, and the role of learning, knowledge sharing and mentoring in capacity strengthening, especially in the Global South. He graduated with a BSc. (Zoology) in 1982 from the University of Poona and was awarded the Indian National Merit Scholarship for

Science in April 1982 and earned a PhD in Zoology (specializing in Entomology) from the University of Auckland, New Zealand in 1989. Dr. Ochieng-Odero works as the Project Team Leader of the East Africa Research Fund (EARF). EARF is a funding facility managed by PwC on behalf of the Foreign, Commonwealth & Development Office (FCDO) of the UK. Prior to the above, Dr. Ochieng-Odero was Deputy Director & Head of Scientific Programmes of the Consortium for National Health Research (CNHR). Earlier he worked as a Senior Research Scientist, Head of capacity strengthening programme of the International Centre of Insect Physiology and Ecology (ICIPE) and Network Coordinator of the African Regional Postgraduate Programme in Insect Science (ARPPIS). He had a stint working with the late Prof. Thomas R. Odhiambo at the R&D Forum for Science-led Development in Africa (RANDFORUM) which organized regional S&T Roundtables and policy-oriented Summits. Dr. Ochieng'-Odero has undertaken consultancy work exploring opportunities for commercialization of research outputs through science parks. In 1995/6 he was a team member of the resource persons to the first and second Copenhagen Series of Seminars on Conditions for Social Progress. In addition, Dr. Ochieng'-Odero has been Appointed (2015-Current) member of the Board of Trustees of the National Research Fund (NRF), (2013-2017) to the Commission of University Education (CUE), (2021-current) as a member of the Advisory Committee of the Kenya National Innovation Agency (KeNIA), Member of the African Scientific Advisory Board (ASAB) of The African Academy of Sciences (AAS) (March 2019-Current), Appointed (2021-current) as resource expert mentor under the African Academy of Sciences (AAS) mentorship scheme, Elected (2014 - Current) member of the Executive Committee of Society for the Advancement of Science in Africa (SASA), Member of the Regional Advisory Group of the DFID-funded Knowledge Systems Innovation Project by the African Centre for Technology Studies (ACTS), Consultant to the the World Bank to develop a research strategy for the Regional Scholarship and Innovation Fund for Applied Sciences, Engineering and Technology (PASET-RSIF), Member of the Programme Monitoring Committee of the Regional Integration Research Network of the Common Market for Eastern and Southern Africa (COMESA), Member of the Scientific Advisory Board of the Training Health Researchers into Vocational Excellence in East Africa (Thrive), Consultant to the Centre for Agriculture and Biosciences International (CABI) to develop a national Desert Locust Management Strategy for Kenya and a Member of the Governing Council of the Mater Misericordiae Hospital (February 2018-Current). Dr. Ochieng'-Odero has published several articles on scientific research, capacity building and technology policy. For his various contributions to national development, he was awarded a Head of State Commendation (HSC), Kenya in 2013.



DR. OTEDO, O. E. AMOS

MKNAS/225/2022

PhD (JOOUST), MB ChB. (UoN), M.D. (UoN) MD, FRCP (Edin).

Dr. Otedo is a medical doctor born in Siaya County on 18th August 1964. He went to Nyabondo primary school, and Usenge and Maranda high schools for “O” and “A” levels respectively and proceeded to the University of Nairobi in 1986 for a course in medicine. He holds a PhD (public health), Master of medicine (Internal Medicine), Gastroenterology/hepatology, Bachelor of medicine and Bachelor of surgery (MBChB), Fellow Royal College of Physicians (Edin), as well as leadership and strategic management in health and Health Systems Strengthening (HSS). He is the immediate former CEO/medical superintendent Kisumu County and Referral Hospital. Currently, he is the Chief of Department of internal medicine, gastroenterology and hepatology and supervises medical officer interns, and runs the following special clinics in the hospital - medical, liver, and diabetes respectively. On the technical arm, he effectively supervise both public and curative health in the hospital and the county. He has carried out research in Malaria, HIV, hepatitis and liver cancer and also engaged as a local Medical Monitor in malaria vaccine and drug trials by Glaxo-SmithKline and Kenya Medical research Institute (KEMRI) Kenya. He is a W.H.O. appointed Consultant on viral hepatitis. On the administrative arm, he led the team that developed the strategic plans for Kisumu County and Referral Hospital [2014-2018] and Chianda Community hospital (2018-2022), he improved financial management in the hospital, and managed an annual hospital budget of US \$800,000. He chaired and coordinated vital committees in the hospital which include: Health Management Team, Health Management Committee, Executive Expenditure (budgeting) Committee, Medicines and Therapeutics Committee and Universal Healthcare Committee for health insurance. He strengthened health systems (HSS) in the hospital by coordinating emergency and ambulance services, initiated computerization of the departments and was involved in resource mobilization and fundraising for infrastructure upgrade and improved services at the facility. This resulted in improved revenue generation to facilitate implementation of public health programmes. He is affiliated to the Kenya Association of Physicians, Gastroenterological Society of Kenya, Kenya Medical Association (KMA), American Gastroenterological Association (AGA), International Liver Cancer Association (ILCA) and American Public Health Association (APHA). He therefore possess the following skills and competencies: Technical (in public and curative health), strategy and forward planning, Administrative and financial skills, critical thinking and positive interpersonal skills. He has published 24 research papers and developed 2 guidelines on Hepatitis Management. Key interest areas include: Public health, Health Systems Strengthening and Leadership development and Mentorship, Research in Internal Medicine, Gastroenterology/Hepatology, and Liver Cancer, and Non-communicable Disease management.

3.2 HUMANITIES AND SOCIAL SCIENCES



PROF. ADHOLLA, M. SHEM

MKNAS/016/1986

PhD (California), MA (California), BA (EA).

Prof. Adholla, is currently a member of the Universities Fund Board and Board director at Equity bank. He holds a PhD in Sociology of Development, Master of Arts in Sociology, both from University of California, was a Special Graduate Student in Agricultural Economics (Michigan State University) and earned a Bachelor of Arts (University of East Africa). He previously served as Vice-Chairman, Board of Directors, Kenya Wildlife Service, and was Lead Specialist on Land Policy and Administration for Africa Region in the World Bank. He has also served as Permanent Secretary, Ministry of Agriculture and Rural Development, Government of Kenya. He has also served as a consultant on agriculture and rural development, land policy reform and environmental issues.



PROF. OMONDI, NDONG'A LUCIA

FKNAS/ 072/1998

BA (EA), PGD.Appl. Ling (Edin), PGD B. Phil. Ling (UoN), PhD (Lon), OBS.

Prof. Omondi was born in 1943. She is a Professor of Linguistics and African Languages University of Nairobi. Prof. Omondi did her primary and intermediate Education at Luanda Primary, then to Butere Girls for her secondary education, which she later advanced at Alliance girls' high school. She proceeded for a Bachelor of Arts Programme at the University of East Africa, Nairobi (1965-1968); University of Edinburgh, Scotland Studied for Postgraduate Diploma in Applied Linguistics (1968-1969); University of Nairobi where she Studied for Bachelor of Philosophy in Linguistics (1970-1971); University of London, University College, U.K. where she Studied for Doctor of Philosophy (PhD) in Linguistics (1971-1975). Her areas of Academic specialization include: General Theoretical Linguistics, Descriptive Linguistics, Applied Linguistics, English Language (Grammar and Usage), Dholuo Language (Grammar and Usage) and Comparative Nilotic Language Studies. Prof. Omondi has professional training from Reeswood Secretarial College, Nairobi where she took Pitman's Secretarial course and Awarded Elementary Certificates in Shorthand and Typing (1965). Between the year 1994 and 2004 she attended many National and International workshops giving training in University Management and related skills including the Galilee College, Nazareth, Israel. She has won many scholarships in her career life.



PROF. MBECHE, MEROKA ISAAC

MKNAS/ 097/2004

B.Ed. (UoN), M.A. (UoN), PhD (Lancaster).

Prof. Mbeche was born in 1952 and is Professor of Management Science at the School of Business who retired with effect from March 21, 2020. He held senior management positions at the University of Nairobi (UoN), which included the position of Deputy Vice Chancellor (Finance Planning and Development), Deputy Vice -Chancellor (Students Affairs), and Principal College of Humanities and Social Sciences. Prof. Mbeche first joined UoN in 1974 to pursue a Bachelor of Education (science). Upon graduation in 1977, he joined the Master of Arts (MA) class and graduated in 1979. Prof. Mbeche taught at the Nairobi School and the Kenya Science Teachers' College. In 1986, he came back to the University as tutorial fellow in the Management Science Department, Faculty of Commerce and rose through the ranks to lecturer, senior lecturer, associate professor, and professor. Between 1992 and 1993 he also worked as a teaching assistant, Management Science Department, School of Management, Lancaster University, UK. Has has authored several articles in refereed journals in his area of specialization.



PROF. KAMERI-MBOTE, PATRICIA ANNIE

MKNAS/099/2004

JSD, JSM (Stanford), PGD Women's Law (Zimbabwe), LL.M (Warwick), PGD Law (Kenya School of Law), LL.B (UoN).

Prof. Kameri-Mbote is a founding Research Director of (IELRC), and the Programme Director for Africa. She studied law at the University of Nairobi, the University of Warwick, the University of Zimbabwe and pursued her doctoral studies at Stanford Law School, (Stanford University). She is currently a Professor of Law at the Faculty of Law of the University of Nairobi and an Advocate of the High Court of Kenya. She has also taught international environmental law at the University of Kansas. She is a member of the IUCN Commission on Environmental Law, a board member of the Advocates Coalition for Development and Environment (ACODE-Uganda) and Women and Law in East Africa (WLEA). She has consulted for many international and national agencies including the World Bank, United Nations Environment Programme (UNEP), and the United Nations Development Programme (UNDP), the World Intellectual Property Organization (WIPO), the Norwegian Agency for Development Cooperation (NORAD) and the government of Kenya. She is also the Africa Editor of the Law, Environment and Development Journal (LEAD Journal), a peer-reviewed academic journal jointly published by IELRC and SOAS. She has published widely in the areas of international law, environmental law, women's rights and property rights. Her research interests include public international law, environment and natural

resources law and policy, human rights, women's rights, intellectual property rights, biotechnology policy and law and economic law.



PROF. NZOMO, NZELE DAVID

MKNAS/ 106/2004

Ed.D. & MA Columbia), MBA [New York], BA [Fisk].

Prof. Nzomo was born in 1939. Prof. Nzomo earned a B.A in 1965 from Fisk University, Nashville, Tennessee, an M.B.A. in 1967 from New York University, an M.A. in 1970 from Columbia University, and an Ed.D. in 1973, also from Columbia University in New York, U.S.A. Prof. Nzomo is a retired Professor of accounting with the School of Business, University of Nairobi. Prior to that, he served as an associate Professor of accounting and a senior lecturer at the University of Nairobi. He also served as assistant Professor of accounting and assistant Professor of business at Stockton State College in New Jersey, U.S.A. From 2004, he has served as a Professor of accounting at the University of Nairobi and has supervised numerous graduate students. During his time as Dean of the Faculty of Commerce at the University of Nairobi, Prof. Nzomo changed the M.B.A. thesis requirement to the current management project report that he formulated, designed, and instituted the “Insurance Option “within the B.Com. Program and he also designed, wrote and organized the faculty publication of a Research and Writing manual for Commerce students. Since June 2006, he has served as coordinator of the PhD studies program at the School of Business, and from 1987 until the present, he has served as a patron of the Accounting Students Association, which produces an annual magazine, The student Accountant. He has served as an external examiner to Africa Nazarene University, Department of Accounting, Business and Finance, and from June 1999 to June 2002, he served as an external examiner with Makerere University Business School in Uganda. From March 1997 to March 2001, Prof. Nzomo served as an external examiner to the Catholic University of Eastern Africa in Kenya. Prof. Nzomo has published widely.



PROF. OTIKE, NATANDULA JAPHETH

MKNAS/115/2004

PhD & M (UK), Dip. Lib. (Makerere).

Prof. Otiike was born in 1950. He had his education at Frere Town Primary School and Sunrise High School in Mombasa and thereafter, proceeded to Shimo-la-Tewa School for A-level in 1969. In 1972 he was admitted at Makerere University for Diploma in Librarianship. He registered for a master’s programme in Library Studies at Loughborough University in the United Kingdom in 1984; and a PhD programme in Library and Information Studies at the same University from 1994 to 1998. Since qualifying as a librarian in 1974 he has

served as librarian at the High Court of Kenya (1975-1980) and librarian at the National Museums of Kenya (1980-1991). In 1991 he moved to Moi University, School of Information Sciences to take up the position of lecturer in the Department of Library and Information Studies. He has since risen to the position of Professor in the same department. In addition to teaching, he has served as Head, Department of Library and Information Studies (1999-2005); and Dean, School of Information Sciences (2014-2014). Prof. Otike teaches both undergraduate and postgraduate programmes. He also supervises masters and doctoral students. He has graduated over 25 masters and 10 PhD students. His research interests are in three areas: legal information with particular reference to intellectual property; marketing of library and information services; and disaster management in libraries. He has published widely in internationally journals. He has attended and delivered papers in many conferences and workshops in and outside Africa. The majority of the papers are on copyright and specifically, copyright exceptions and limitations.



PROF. KRHODA, OKOYE GEORGE

MKNAS/129/2007

PhD (Simion Frazer University), MSc. (Wilfrid Laurier University), B.Ed. (UoN), CBS.

Prof. Krhoda is an associate professor of Geography and Environmental Studies and Vice Chairman of Daystar University Council. He is a hydrologist/water resources management specialist and has B.Ed. (Hons), M.A and PhD on river hydraulics and water resources planning. Prof. Krhoda is also the Managing Director of Research on Environment and Development Planning (REDPLAN) Consultants Ltd. Until December 2006, he was the Permanent Secretary, Ministry of Environment and Natural Resources and Chairman of the Negotiation Committee on the Nile Basin Cooperative Framework, and earlier Permanent Secretary in the Ministry of Water and Irrigation where most of the water sector reforms were carried under his watch. He has done “Environmental and social impact assessment (ESIA) for Akiira One Geothermal Power Energy in Rift Valley, having completed ESIA for Mount Suswa Geothermal Energy, Formulation of Kenya’s national Groundwater Policy; National Transboundary Water Resources Policy, and Outcome Evaluation of UNDP Rwanda Environment Programme”. Recently, Prof. Krhoda has been involved in “Development of the Mau Forest Complex Investment Programme”, “Lake Naivasha Conservation and Integrated Water Resources Management (IWRM) Programme” in developing, managing and evaluating “Mara River Basin Policy, Legal and Institutional Cooperative Framework”, “Environmental Audit for Arid Lands Resource Management Project, Climate Change and Development Study”, humanitarian programmes in South Darfur in Kass, reviewed the status of IWRM in countries of the South, member of GWP Review Group on IWRM planning and has consulted in various capacities for the World Bank, UNDP, UNICEF, UNEP, the Royal Netherlands Embassy in Nairobi, and WWF, African Centre for Technology Studies (ACTS), IGAD, COMESA, and OSS; co-organized

with UNO/UNEP international conferences on UN Desertification Convention, UN Climate Change Convention, Basel Convention and ILEC/World Lakes Conferences. Prof. Krhoda was appointed Rapporteur for the GA/UNEP, in February 2006 in Dubai, The Emirates. His current consultancy assignment concentrates on Policy Dialogue and Conflict over use and access to natural resources, institutional reforms, strategic planning, floods and environmental management.



PROF. ROTICH, CHEBUTUK DANIEL

MKNAS/143/2007

PhD [Thames Valley University], MSc. (University of Stirling), BSc. (Moi).

Prof. Rotich is a professor of Publishing Studies at Moi University, Department of Publishing and Media Studies, School of Information Sciences, Eldoret, Kenya. He has served as head of Department of Publishing and Media Studies for three years, and Dean of the School of Information Sciences for four years in Moi University. He holds a PhD in information management (Thames Valley University – London, University of West London, UK), M.Phil in Publishing Studies (University of Stirling, UK) and BSc in Information Sciences (Moi University, Kenya). He has served in various committees of Moi University including senate, procurement, learning resources. He is a co-editor of Contemporary Publishing and Booktrade in Kenya (Moi University Press) and a member of editorial board of East African Journal of Information Sciences. He has published widely in the area of publishing studies (educational and scholarly publishing areas). His area of teaching and research include scholarly publishing, educational publishing, book marketing, book design and production, electronic publishing and information management. He has attracted grants for trainings in a number of areas related to publishing including new technologies (web2.0) and research grants that have led to presentation of papers in various conferences.

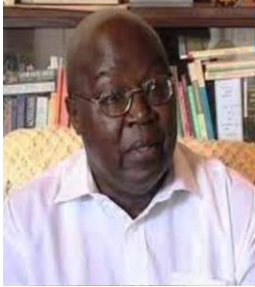


DR. MUSEBE, O. RICHARD

MKNAS/158/2011

PhD (New Delhi), MSc. [UoN], BSc. (UoN)

Dr. Musebe has more than 15 years of socio-economics research. He has broad background knowledge and experience of agricultural/development economics and extensive fieldwork experience in Kenya, Uganda, Tanzania, Ethiopia, Zimbabwe, Rwanda and Malawi. He has conducted extensive socio-economic studies on uptake of improved crop technologies, impact assessment; monitoring and evaluation, value chain analysis, crop pest control and crop husbandry practices, and marketing. His research interests include agriculture and rural development, technology, food policy and poverty.



PROF. MBITHI, M. PHILLIP

FKNAS/ 024/1986

BSc. (E.A), MSc. & PhD (Cornell).

Prof. Mbithi is a professor of Sociology. Prof. Mbithi formerly served as the head of Public Service (1992–1996). He also served as a permanent secretary in the office of the president. Prof. Mbithi became the head of Public Service after serving at the University of Nairobi where he served as the Vice Chancellor.



PROF. OGENDO, B. REUBEN

FKNAS/ 032/1986

Dip. Ed (E.A), BSc. (Aberdeen), PhD (London).

Prof. Ogendo served as the head of the Faculty of Arts, University of Nairobi (1976-1980). He made a number of inaugural lectures at the University on physical and human geography, and published more than 30 papers in peer-reviewed journals.



PROF. OGOT, A. BETHWELL

FKNAS/ 033/1986

Dip.Ed (E.A), MA (St. Andrews), PhD (London).

Prof. Ogot was born in Gem, Siaya County in 1929. He studied at Ambira, Maseno School, Makerere University College, and the University of St Andrews and later, the School of Oriental and African Studies, University of London. While studying in London, he served as a leader of the Kenya Students Association, where he assisted the Kenya nationalists. Prof. Ogot commenced his university academic and research life as lecturer at the Makerere University, and eventually became Chairman of the History Department of University College, Nairobi, currently the University of Nairobi (UoN). At the UoN he founded and directed the Institute of Development Studies (IDS) and the Institute of African Studies (IAS). He also served as the Dean, School of Arts and Social Sciences and Deputy Vice-Chancellor Academics therein. He was the President of the International Scientific Committee for the preparation of UNESCO's General History of Africa. He edited Volume V of UNESCO's History of Africa, and presided over the committee that oversaw the production of the entire History. He was a member of the International Commission for UNESCO's History of Humanity. From the University of Nairobi, Ogot was appointed by President Jomo Kenyatta to serve as member of the East African Community (EAC) Legislative Assembly, between 1975 and 1977. Between 1978 and 1980 Ogot served at the International Louis

Leakey Memorial Institute for African Pre-History (TILLMIAP), which was an integral part of the National Museums of Kenya (NMK), as its first director. He served Kenyatta University as Professor, and the Kenya Post and Telecommunications as chairman. He was the Chancellor of Moi University, Eldoret, up to 2013. He remains Professor Emeritus of Maseno University, where prior to being Chancellor of Moi University he had been the Director of Post-Graduate Studies. Prof. Ogot won the coveted distinguished Africanist Award (2001) of the African Studies Association, presented annually in recognition of a lifetime of notable service to African studies, among other awards.



PROF. OJWANG, B. JACKTON

FKNAS/ 049/ 1994

LL.B, LL.M (UoN), PhD (Cantab).

Prof. Ojwang is a Kenyan lawyer and a retired Associate justice of the Supreme Court of Kenya. Upon retiring from the Supreme Court, President Uhuru Kenyatta appointed him as chairperson of the Energy and Petroleum Regulatory Authority (EPRA). Justice Ojwang was born in 1950 in Migori County. He went to Homa Bay High School, sitting for his O-Levels in 1968. He then went to the Thika High School where he sat for his A-Level in 1970. He earned his undergraduate degree in Law at the University of Nairobi in 1974 and a master's degree at the same university in 1976. He earned a PhD degree in comparative constitutional law at Downing College in 1981. Justice Ojwang worked as a lecturer and served as the Dean of the School of Law at the University of Nairobi from 2000 to 2003. He was also a visiting associate professor of law at the J. Reuben Clark Law School in Brigham Young University. In September 2015, Ojwang received a Doctor of Laws degree from the University of Nairobi, having successfully defended his thesis, titled *The Unity of the Constitution and the Common Law*. He became the first sitting Kenyan judge to receive a Doctor of Laws degree. Ojwang was admitted as an advocate of the High Court of Kenya in September 1983. He joined the Judiciary of Kenya in 2003, serving as a high court judge in Nairobi and Mombasa until 2011. In June 2012, Ojwang was among 5 Justices nominated to the Supreme Court of Kenya by the Judicial Service Commission. Justice Ojwang' retired from the Supreme Court in February 2020 when he reached the mandatory retirement age of 70. In May of the same year, President Uhuru Kenyatta appointed him to chair the Board of Directors of the Energy and Petroleum Regulatory Authority (EPRA). Prof. Ojwang has published widely in his area of specialization.



PROF. MUHENGE, OLENJA JOYCE

MKNAS/ 056/1995

B.Ed. (UoN), M. Phil (University of Cambridge), PhD (England).

Prof. Muhenge is an Associate Professor, Department of Community Health, University of Nairobi. Prof. Muhenge specializes in Medical Anthropology/Sociology and has taught and mentored several Medical Students. She has served as external examiner various Universities, and has several publications in refereed journal to her credit.



PROF. MUNGUTI, KAENDI

MKNAS/ 057/1995

B.A. & M.A. (Nbi), M.P.H & PhD. (California).

Prof. Munguti is currently a professor at the University of Nairobi specializing in Medical Anthropology; Malaria, Gender and Poverty. She is trained in public health with a doctoral degree in medical anthropology. She has worked as a regional advisor on community malaria control for the World Health Organization and an International Non-Governmental Organization. She has also participated in project reviews and evaluations for various organizations on malaria, social development and poverty. Prof. Munguti has got a rich experience in proposal writing, research and report writing. She could be described as an accomplished research scientist with over 20 years support to various social development and health programmes. Prof. Munguti attained her Doctorate of Philosophy (Ph.D) in Medical Anthropology/Social Medicine, and Masters in Public Health (MPH) in University of California, Los Angeles, Masters of Arts (MA) in Sociology and Bachelor of Arts (BA) at the University of Nairobi. She served as the Senior Advisor USAID from 2008-2013.



DR. OGOLLA, BONDI DAN

MKNAS/ 064/1995

LL.B, LL.M (UoN), D.E.A, PhD (Bordeaux).

Dr. Ogolla obtained his PhD in Law from the Centre for International and Comparative Law, University of Bordeaux I, France in 1991. He also holds the LLB and LLM degrees from the University of Nairobi and a DEA from the University of Bordeaux I. Dr Ogolla was Lecturer and Senior Lecturer of Public Law at the University of Nairobi Law School from 1983 to 1992 before joining UNEP in 1992 as Legal Officer responsible for UNEP's technical assistance programme to developing countries and countries with economies in transition in the field of environmental policy, law and institutions. He was Legal Advisor at the UN Convention on

Biological Diversity (Montreal, Canada) from 1999 to 2006, Chief Legal Advisor at the UNFCCC from 2007-2012, and Coordinator & Principal Legal Advisor at the UNFCCC from 2013 to date. Dr Ogolla is a member of the International Council of Environmental Law, the IUCN Commission on Environmental Law, the Kenya National Academy of Sciences, and the Editorial Board of the Journal of International Wildlife Law and Policy. He is the co-author of the *International Encyclopaedia of Environmental Law: Kenya* (Deventer: Kluwer, 1996). He has contributed chapters in books and published several articles in reputed international journals on environmental law, trade and environment, and land tenure issues.



PROF. ONIANG'O, M. CLEMENT

FKNAS/ 073/1998

BSc. (Wisconsin, USA), M.A (Washington, USA), PhD (Makerere).

Prof. Oniang'o is a full Professor of Philosophy and researcher at the University of Nairobi, Department of Philosophy and Religious Studies.

Prof. Oniang'o had a strong background in Biological Sciences at Wisconsin State University Stevens Point, USA. He received Undergraduate training, and Philosophy and Postgraduate training at Washington State University Pullman, USA, Columbia University (New York) and Makerere University, Kampala respectively. He currently teaches Philosophy (Metaphysics and Epistemology), Ethics, Social and Political Philosophy, Philosophy of Science, and Philosophy of Law, at the University of Nairobi. He has been Visiting Professor in the Institute for the History & Philosophy of Science & Technology (IHPST) University of Toronto (Canada) in the Fall Semester (August –December 2006). He has also taught Philosophy at Washington State University (USA), Loop College Chicago (USA), Millsaps College (USA), Tougaloo College (USA), Makerere University (Kampala, Uganda) and Kenyatta University (Kenya). He has served as external examiner of Department of Philosophy at Universities of Zimbabwe, Zambia and Makerere. Clement is a member of the International Society for Values (ISV), International Metaphysics Society (IMS), American Philosophical Association (APA), The African Philosophical Association (APA) and a Fellow, Kenya National Academy of Sciences. He has researched and consulted for many international and national agencies including Booker International (London), International Development and Research Centre (I.D.R.C) Canada, Ford Foundation, and National Council for Science and Technology (N.C.S.T). He has been awarded scholarships and fellowships including: The Institute for International Education (IIE) (1964-68), The Fulbright Research Fellowship (1984-85), The Senior Fulbright Visiting Research Scholar Fellowship (1994-1995), The DAAD Senior Scientist Exchange Fellowship (1994), the DAAD Senior Research Scientist Exchange Fellowship (2001) and the Johns Hopkins University Forgarty Aids International Training and Research Program Scholarship Biographical Summary (2003) and (2005) at the School of Hygiene and Public Health, Johns Hopkins University (Baltimore MD, USA). He has published widely in the areas of Medical Ethics, Philosophy, Politics, Culture, Values, Socio-economics, Sex Education, Religion, and Environmental Issues, and participated in many international, regional and national

conferences. His current research includes: Indigenous Knowledge (ethno medicine, ethno environmental ethics) Bio-ethics: Dilemmas in Medical Ethics, Philosophy, HIV/AIDS, Politics, Education, Religion and Environmental Issues.



PROF. KIBERA, NDUNGU FRANCIS

MKNAS/ 090/2004

PhD (Toronto, Ontario), MBA (Alberta, Canada), B.Com (E.A.)

Prof. Kibera holds a Doctor of Philosophy (PhD) degree in Business Administration from University of Toronto, and a Master of Business Administration from University of Alberta, both in Canada. He did his Bachelor of Commerce (B. Com) degree program at the University of East Africa (University College, Nairobi). He has extensive administrative and management experience in the public sector particularly in the education and training sub-sector. He has also undertaken many value-adding research and consultancy assignments in areas of strategic management, marketing, customer and employee satisfaction in the Public Service and institutional development and capacity building. He has experience of over 35 years as a senior academician in the School of Business, University of Nairobi. He also served as the Chairman of Kenya Accountants and Secretaries National Examinations Board (KASNEB) between January 1998 and June 2007. He has been the Chairman of Governing Council of the Kenya School of Government from September 2012. He has served as an External Examiner and extensively consulted in management and capacity building with many institutions of higher learning including Uganda Martyrs University, University of Botswana, University of Namibia, Makerere University, University of Zimbabwe, Copperbelt University, Zambia, University of Dar-es-Salaam, Kenyatta University, Presbyterian University of East Africa, Africa Nazarene University, Narok University (now Maasai Mara), and Murang'a University among others. Other public sector clients have included the Tourism Regulatory Authority, Kenya Plant Health Inspectorate Service, Ministry of State for Public Service, Ministry of Education, Science and Technology, Kenya National Library Service, Kenya Education Staff Institute, Kenya Institute of Education, Kenya Institute of Administration (KIA), Kenya Utalii College, Institute of Certified Public Secretaries of Kenya (ICPSK), Ministry of Labour, Social Security & Services, Capital Markets Authority, Ministry of Tourism, Kenyatta International Conference Centre, Cooperative Bank of Kenya Ltd, Kenya Postal Corporation, Kenya Roads Board, Kenya Tourism Board, Insurance Regulatory Authority (IRA), Kenya Tea Development Agency (KTDA), SACCO Societies Regulatory Authority (SASRA), Unga Group Limited, Royal Insurance Company of East Africa, Ernest and Young, and National Fund for the Disabled of Kenya, among others.

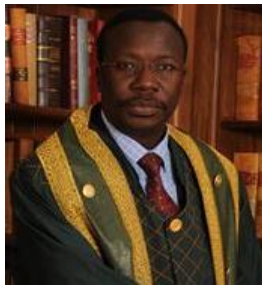


PROF. NYABUTI, ONDIMU KENNEDY

MKNAS/ 105/2004

PhD (Egerton), MA & BA (UoN).

Prof. Nyabuti is a Professor of Human Geography at Egerton University. His field of specialization is Population Studies with a focus on: Population dynamics and health outcomes; health impact assessment; child wellbeing; urban poverty and health outcomes; gender issues in health; forced migration and health outcomes; population growth and natural resource management. As the author of *Risky Sexual Behaviors among Migrant Tea Workers in Kenya* and *Child Exclusion among Internally Displaced Populations in Rift Valley and Nyanza Provinces of Kenya*, Prof. Nyabuti brings to light sociological, cultural and demographic factors which drive behaviors and the barriers to changing behaviors.



DR. HON. JUSTICE WANJALA, SMOKIN

MKNAS/ 124/2004

PhD [Gent], LLM [Columbia], LLB [UoN].

Dr. Hon. Justice Wanjala is a holder of a Bachelor of Laws (LL.B, Hons.) from the University of Nairobi, a Diploma in Law from the Kenya School of Law, a Master of Laws (LL.M) from Columbia University, New York and a Doctorate in Law (PhD) from the University of Ghent, Belgium. Before his appointment to the Supreme Court of Kenya, Justice Wanjala had been a Law Lecturer at the University of Nairobi for twenty (20) years (1986-2004) where he offered instruction in diverse areas of law including, Land Law, International Law, Human Rights Law, Criminal Law and Law of the Sea. He was appointed as Assistant Director of the defunct Kenya Anti-Corruption Commission (KACC), in October 2004 where he served in that capacity until 2009. While still lecturing at the University of Nairobi, he was appointed to serve as the Joint Secretary to the Commission on Illegally and Irregularly acquired Public Land in 2003. He is credited with having overseen the compilation and writing of what has become popularly known as the Ndung'u Report. Justice Wanjala was the first Chairman of the Public Complaints Committee on the Environment (PCC), which is one of the Compliance Committees of the National Environment and Management Authority-NEMA.



PROF. OWINO, ODUOR PHILLIP

MKNAS/ 141/2007

PhD, MSc., B.Ed (Kenyatta University), MNYAS.

Prof. Owino was born in September 1960. He is plant pathologist, microbiologist. He was a research Fellow German Academic Exchange

Service, Bonn, Germany (1990-1991) and scholar Ministry of Education, Kenya, 1987. Prof. Owino is a Member of the New York Academy of Sciences. Prof. Owino rose through ranks as a lecturer at Kenyatta University (1987-1995), which he doubled with being a research supervisor in plant pathology at the University. Prof. Owino has been listed as a noteworthy plant pathologist by marquis Who's who.



PROF. MUGAMBI, N. KANYUA JESSE

FKNAS/047/2015

B.A., M.A., Ph.D (UoN), PGD. (Hague), Sr. Univ. Admin. Cert. (Manitoba), Cert. Th. (EA), EBS.

Prof. Mugambi is a professor of Philosophy and Religious Studies, University of Nairobi. He is a resource person in the Commission for Higher Education (now Commission for University Education) since 1988 focusing on philosophy, theology, religious studies and applied ethics. As a member of editorial board for the Cambridge Dictionary of Christianity (2010) he contributed fifteen articles therein. He has also contributed articles in the handbook of Theological Education in Africa (2013). His professional training is in education; communication policy and planning; publishing; ecology and applied ethics. His academic specializations include philosophy, theology and religious studies. He was admitted into membership of the Kenya National Academy of Sciences (MKNAS) in 1994, and in 2010 he was conferred the National Honor of the Order of Elder of the Burning Spear (EBS). He has been an alumnus of the University of Nairobi since 1971, having studied at Westhill College, Birmingham, UK, and conducted historical research at the CMS Archives in London (1969-70). He joined academic staff of the University of Nairobi in 1976, and rose through the ranks to full Professorship in 1993. He was Registrar, Academic Affairs (1990-94); Associate Dean, Faculty of Arts (1990); Chairman, Department of Religious Studies (1986-90). On leave of absence he was visiting Mellon Distinguished Professor at Rice University, Houston, Texas (1990-91); Senior consultant for development and research at the All Africa Conference of Churches (1994-97); Guest or visiting professor at the following universities: University of Edinburgh, UK (1997); Lund University, Sweden (1997); University of Copenhagen (1997 and 2009); University of Helsinki, Finland (1997); Emmanuel College, Toronto, Canada (1999); University of South Africa, Pretoria (2000); Vanderbilt University (2002); University of the Western Cape, South Africa (2003); Uganda Christian University (2005); Director of Starehe Boys Centre, Nairobi (2007-2008). He has been external examiner in: Anna University (India); University of Cape Town (South Africa); Egerton University (Kenya); University of Ghana; University of Helsinki (Finland); Kenyatta University (Kenya); Makerere University (Uganda); Makumira University College (Tanzania); School of Mission and Theology (Stavanger, Norway); Moi University (Kenya); University of Natal Pietermaritzburg, (South Africa); University of South Africa, Pretoria. On Quality Assurance he is also a resource person for the National Research Foundation of South Africa (NRF). Within the ecumenical movement he served as theology secretary for the

World Student Christian Federation-WSCF (1974-76), and remained a resource person in various ecumenical organizations at local, national, regional, continental and global levels. For the World Council of Churches (WCC) he has served as Member of the Commission on Faith and Order (1975-83); Working Group on Church and Society (1983-94); Working Group on Climate Change (since 1994); Working Group on Inter-religious Dialogue and Cooperation (since 2012). His service to Community has included membership and advice in various boards and committees both within Kenya and elsewhere. He has published more than thirty books as author, co-author, editor or co-editor, including Applied Ethics in Religion and Culture (2012); Contextual Theology Across Cultures (2009); Responsible Leadership: Global and Contextual Ethical Perspectives (2009).



PROF. SUDA, A. COLLETTE

FKNAS/071/2015

B.A. (UoN), M.A. & PhD (Missouri), CBS.

Prof. Suda received her PhD in Rural Sociology from the University of Missouri - Columbia in 1986. She has had a steady academic growth at the University of Nairobi since she was appointed a research fellow at the then Institute of African Studies (IAS) in 1986. She was later promoted to the position of Senior Research Fellow in 1990; Associate Professor of Research in 1997, and Professor of Sociology in 2002. Since her appointment as a research fellow, Prof. Suda has taught and conducted research on gender and development, family studies, rural development and social development issues. Prof. Suda was one of the coordinators of the women studies project at the Institute of African Studies (IAS) until 1999 when she was appointed the Director of the same Institute (currently The Institute of Anthropology, Gender and African Studies) a position she held until 2002 when she was, again, appointed the Director Board of Common Undergraduate Courses (BCUC) at the University of Nairobi. Between 2004 and 2007 she served as a Secretary for Gender and Social Development in the Ministry of Gender, Children and Social development. She also served as a member of the Advisory Board of the Women Enterprise Fund and a member of the Governing Council of the National Crime Research Centre. From 2007-2012 she served as the Secretary for Gender and Social Development in the ministry of Gender, Children and Social Development, and later served as the Principal Secretary, State Department for Gender, Ministry of Public Service and Gender. She is also the *current* Chairperson of the Governing Board of African Institute for Capacity Development (AICAD). She is the former Chief Administrative Secretary (CAS) and Principal Secretary (PS), State Department for University Education and Research, Ministry of Education, Kenya; Chief Administrative Secretary, Ministry of Energy; Principal Secretary for University Education, Ministry of Education; Principal Secretary, State Department of Science and Technology, Ministry of Education; She also served as an external examiner. Prof. Suda has received several honors and awards on recognition of her distinguished service in the education and public sectors; two among

them are the First Class: Elder of the Burning Spear (EBS) and Chief of the Order of the Burning Spear (CBS).



PROF. OUMA, COLLINS

MKNAS/171/2015

PhD, MSc., BSc. (Kenyatta University).

Prof. Ouma currently works at African Population and Health Research (APHRC), as a research scientist and programme leader of the Health Challenges and Systems (HCS) Research Programme. He is a professor in biomedical sciences and until his appointment, served as the Director of Research, Publications and Innovations at Maseno University, Kenya, where he has also held many senior academic and administrative positions including Dean, School of Public Health and Community Development. Earlier in his career, Prof. Ouma served as a Senior Research Officer with the Kenya Medical Research Institute (KEMRI) based at the Centre for Global Health and Research (CGHR) in Kisumu, Kenya, and within the National Institutes of Health-funded Severe Malarial Anemia (SMA) Project. A geneticist by training, Prof. Ouma's work covers major health challenges in Africa including infectious diseases, neglected tropical diseases, non-communicable diseases, and health systems-related issues. His work on the genetic basis of severe malarial anemia in pediatric populations has been published in leading international peer-reviewed journals including Nature, Malaria Journal, Infection and Immunity, Human Genetics, BMC Genetics, among others. In recognition of this work, Prof. Ouma was awarded the Pfizer Royal Society Best African Scientist in 2010. At APHRC, Prof. Ouma leads a dynamic team of over 20 multi-disciplinary researchers working on four thematic programme areas within the Center's HCS Research Programme: Non-communicable diseases; Maternal, newborn and child health; Health systems; and Infectious diseases and environmental health. According to Dr. Alex Ezech, APHRC's Executive Director, "Prof. Ouma's extensive experience in leading research faculty and research programmes, overseeing university-wide systems for research-quality assurance, and mentoring graduate students are some of the unique strengths he brings to the position."



PROF. NGURE, PETER

MKNAS/176/2015

PhD (JKUAT), MSc. (Moi University), B.Ed. (Kenyatta University).

Prof. Ngure is a scientist, administrator and trainer with a track record of academic excellence. He has developed his career in teaching for the last 23 years with 8 years' experience as a graduate teacher and administrator and 15 years of university level teaching, research and

administration in three (3) chartered private universities in Kenya. His research outputs have been published in reputable 15 peer-reviewed journals and presented in 14 international conferences in Kenya, Tanzania, Ghana, South Africa, Nigeria, Netherlands, China, India, Germany, UK and USA. In addition, he is a trained HIV and AIDS programme manager, a certified molecular biologist and was admitted to be a fellow of the UK Higher Education Academy in July 2010. He has won the Star of Excellence Award in teaching and the Researcher of the Year (2010) at Daystar University and the outstanding Young Scientist Award by the African Academy of Sciences and the IAP (2009). The Bill and Melinda Gates Foundation through the competitive Grand Challenges Exploration Programme awarded him US dollars 100, 000 in 2010 (Round 4) to undertake a research on biological control of sand flies using fungi from Kenyan soil. The Hicky Family Foundation awarded him KES 15 million in 2014 for the control of leishmaniasis in Marigat, Baringo County. He has also received a post-doctoral research grant of KES 1 million from National Commission for Science, Technology and Innovation (NACOSTI) for medicinal plants research. Daystar University declared him the Dean of the Year in 2011. Peter has undertaken consultancies with the Save the Children UK, the Ministry of Public Health and Sanitation, Aquinas High School and the World Vision-Kenya. He is the current external examiner for zoology course for the Department of Biological Sciences in Moi University and has examined numerous PhD and MSc theses as an external examiner. He has also successfully supervised 40 masters students and is involved in teaching and supervising of PhD student. Prof. Ngure is a founder member of Global Young Academy, and the Kenya Palliative Care Association.



PROF. KAMAARA, K.N. EUNICE

MKNAS/187/2015

PhD (Moi University), M.A (Moi University), B.A (UoN).

Prof. Kamaara, a Kenyan born in 1965 is a professor in religious studies at Moi University. She presented her inaugural lecture titled “Gender Reconstruction: A Holistic Strategy for Controlling HIV/AIDS in Kenya” on 28th March 2012. She is also an appointed International Affiliate Professor of Indiana University Purdue University, Indianapolis (IUPUI). She holds a doctorate in religious studies, specifically in African Christian ethics. Her research interest is inter-disciplinary: theological, ethical, medical-anthropological and gender approaches to various challenges to the Church in contemporary Africa. Individually and with others, she has carried out major researches in the area of gender, HIV/AIDS and human sexuality. She has presented over 200 papers in local and international forums and has over 50 publications in form of chapter contributions to academic books and articles in refereed academic journals. She is the author of the book *Gender, Youth Sexuality and HIV/AIDS: A Kenyan Experience* (2005) and has co-edited three books on church, health ethics and development plus some electronic works on bioethics. Generally, the publications indicate the writer’s conviction that the church is one of the major institutions with the potential

to change the future of Africa, a continent laden with myriad symbiotic problems related to unethical human behaviour. Kamaara is also trainer of trainers in gender and development and in sexual health, including HIV/AIDS. She has consulted for national and international organizations such as the All Africa Conference of Churches, the World Bank, the United Nations Fund for Population Activities (UNFPA), and the United States Agency for International Development (USAID). She is a member of the World Council of Churches working group on biotechnology and is the coordinator of the African Christian Initiation Programme (ACIP). She is Presbyterian by birth and upbringing, Roman Catholic by marriage and Catholic by choice. She is married and blessed with two children. Prof. Kamaara recently completed an evaluation of youth empowerment for peace, reconciliation and development in western Kenya in the context of Giving Hope Empowerment Methodology (GHEM). Following this evaluation project, she is scheduled to lead a team to carry out an empirical experiment on the impact of the GHEM. Additionally, Kamaara is a member of the Church World Service Board representing Africa.



PROF. MARU, C. LOICE

MKNAS/188/2015

D.Phil (DBM); Mphil. BBM (HRM) (Hons; BBM Hons (MU); HND.

Prof. Maru is a professor of Marketing and Management Science, School of Business and Economics, Moi University, Kenya. She teaches entrepreneurship and micro enterprise management, human resource management and general principles of management. Prof. Maru is holder of Doctor of Philosophy degree in Business Management (Strategic Management Option), and a Master of Philosophy in Entrepreneurship Studies (2004). She obtained a Bachelor's degree in Business Management (Hons) (Human Resource Option) in 2001 from Moi University. She also holds a Higher National Diploma in Entrepreneurship Studies (1997). Loice has presented several papers in international conferences both locally and abroad, and also published in refereed journals. She has over ten (10) years of teaching experience at university level both at undergraduate and post-graduate levels. She participates in supervision of research projects and theses for doctoral students at the university. Prof. Maru has co-authored over 20 articles published in leading refereed journals. One of her papers won An Outstanding Paper Award Winner at Literati Network Awards for Excellence 2013. Her current focus in research is in social entrepreneurship, quality management, corporate social responsibility, and innovation, corporate strategy, organizational leadership and change management. She has been a member of African Academy of Management (AFAM) since January 2013 and the social responsibility network (online). She is also a nominated member of the Scientific Council of Journals "Economic and Law" of Nicolaus Copernicus University in Torun (Poland). Prof. Maru has provided administrative support to Moi University through co-ordination of academic programs, curricular development and review, auditing for quality as a trained and certified internal quality auditor (KEBS) and directing academic and administrative programs currently at

the Nairobi Campus. Loice has participated extensively in innovative teaching approaches such as in e-learning that enables internationalization at home, working in collaboration with universities in the Netherlands. She has facilitated international student-exchange programs in the School of Business and Economics that provided opportunities for local students to interact with those from European countries such as the Netherlands, Poland, Hungary and Germany. Prof. Maru actively participated in community-based academic programs. The Youth Development Entrepreneurship Programme (YDEP) is her brain-child. The Programme was encapsulated in Summer Project undertaken through Student Exchange Program between Moi University and Hogeschool-Utrecht in Netherlands with teaching, planning and writing a competitive Business Plan to high school girls within the counties around Moi University. Additionally, Prof. Maru is a member of Board of Governors CITC-Kapsabet in Emgwen District, Nandi County since 2009, where she has contributed immensely in the development of academic programs and institutional infrastructure.



PROF. NAITULI, GITILE JOSEPH

MKNAS/189/2015

PhD (Egerton University), MBA (USA) B.A and Gov't (USA).

Prof. Naituli was born in January, 1961 in Meru North District, Kenya and attended Isiolo Secondary School and Chuka High School for his “O” and “A” levels respectively. He proceeded to MIU-IOWA, USA for BA degree in Business Administration and Government, and an MBA degree in management. In 2004, he graduated from Egerton University with a PhD in Business Management. Prof. Gitile Joseph Naituli has over 20 years-experiences in business management and leadership gained from extensive consulting, facilitation, teaching and research. He is currently the Acting Principal and Deputy Principal (Finance and Administration) and serves as Associate Professor, business management and leadership of management at the University of Virginia, USA and sits on the Advisory Board of Environic Foundation International (EFI) USA, as well as the National Trustee Intervarsity Environmental Network (IVEN). Prof. Naituli is the author of more than 25 papers on leadership and management that have been published in professional journals or presented at various professional international conferences. His research interests include, education for sustainable development and its application to business systems, small to medium enterprises and the implication for sustainable development, small business development and management, gender issues in small business management and development and the implication for poverty alleviation efforts, climate change adoption and mitigation, gender issues in organizational development a management, strategic management and its implications for organizational re-engineering, transformational leadership and its implication for development and conflict resolution and mitigation. Prof. Naituli has been a consultant for UNESCO Windhoek Cluster Office to Angola, Lesotho, Namibia, South Africa and Swaziland. He was contracted to facilitate two

workshops on reorienting teacher education for sustainable development (ESD) in Namibia and Swaziland for the SADC region in August 2010. Prof. Naituli is a technical specialist with the United Nations Environment Programme (UNEP), Mainstreaming Environment for Sustainability in African Universities (MESA) – Managing MESA’s enabling activities, inter-university communications and ESD activities, co-ordination and needs assessment; assisting with the monitoring, review and evaluation of universities change projects; representing MESA in related expert groups like the consultative group of experts for international networks on climate change held at Ahmedabad, India. He also helps African universities to develop projects on adaptation to climate change for funding from SIDA-ESD’s ITP programme and also providing technical assistance to the concerned universities, besides organizing, planning and participating in strategic meetings and seminars/workshops. He is currently working on adaptation projects with 15 universities in 15 African Countries. Prof. Naituli was appointed in 2008 co-coordinator for the international training programme in education for sustainable development in higher education in African universities by Ramboll Natura AB and SIDA of Sweden. He Chaired the University of Gondar (Ethiopia) Senate Committee that helped develop a curriculum based on the United Nations guidelines on education for sustainable development (ESD), which used ESD tool kit as a resource. The curriculum won the 2007 UNESCO/UNEP MESA AWARD for innovation and application of ESD principles in higher education.



PROF. ACHOKA, K. S. JUDITH

MKNAS/190/2015

PhD. (Kenyatta University), MA (McGill); B.Ed. (UoN).

Prof. Achoka is a scholar in Educational Administration Management and Policy studies. She holds a post-doctoral certificate from Kassel University, Germany, where she studied organizational management in higher education, Doctor of Philosophy in Education Administration Management and Policy studies from Kenyatta University, Masters of Arts (Education) from McGill University and Bachelor of Education degree from the University of Nairobi. She began teaching in secondary schools from September 1978 to December 1986 and teacher training colleges from 1987 to 1992. In April 1992 she moved to Moi University as an Assistant Lecturer in the Faculty of Education, Department of Educational Planning, Administration and Curriculum. In August 1994, she was promoted to the rank of lecturer in the same department until August 2003, when she moved to Masinde Muliro University of Science and Technology in the Faculty of Education and Social Sciences. At Masinde Muliro University of Science and Technology, she was appointed the pioneer Chairman of the Department of Education Planning and Management from 2003 to 2010. In April 2008 she was promoted to the status of senior lecturer. In March 2012 she was appointed associate professor of Education. She has attended several education conferences, seminars, workshops and in-service trainings inside and outside Kenya

towards her career development. Prof. Achoka is a member of the Busia District Education Board (DEB); and a Governor in several senior secondary schools, including: Friends School Kamusinga in Bungoma County; St. Anne's Kisoko Girls Secondary School in Busia County; St. Thomas' Madende Secondary School in Busia County & Malanga Secondary School in Busia County.



PROF. GETUI, N. MARY

MKNAS/191/2015

PhD (Kenyatta University), MSc. & B.Ed. (UoN).

Prof. Getui was born in Thika County in 1959. After her early education in Loreto High School, Limuru, Prof. Getui proceeded to University of Nairobi (where she obtained her B.Ed and M.A. She obtained her PhD from Kenyatta University. In 1988, she was employed by the same institution to teach in the Department of Philosophy and Religious Studies until 2010, when she joined Catholic University of Eastern Africa. At Kenyatta University, she served as chairperson of the department; Director, Board of Undergraduate Studies and Dean, School of Humanities and Social Sciences. In the latter institution, she is the Director, Directorate of Quality Assurance. Prof Getui has held leadership positions in Ecumenical Association of Third World Theologians (EATWOT), Ecumenical Symposium of Eastern Africa Theologians (ESEAT), Association of Theological Institutions in Eastern Africa (ATIEA), World Forum for Theology and Liberation (WFTL), Association for the African Study of Religions (AASR), The Circle of Concerned African Women Theologians. Other bodies where she has been involved include Women Educational Researchers of Kenya (WERK) and Association of Women in Research and Development (AWARD). Prof. Getui has published widely in the areas of religion, culture, education, gender and leadership. These are also her areas of research interest. She has special concern on issues of peace, conflict resolution and reconciliation, more so as guided by indigenous considerations. This brings in the aspect of interfaith dialogue and ecumenism. Interrogating the challenges and opportunities for the youth in the contemporary times is another passion of Prof. Getui. In 2009, Prof. Getui was appointed the Chairperson of the National AIDS Control Council. This has widened her exposure to the challenges and complexities of HIV and AIDS. The mandate of the Council is to coordinate the national response to HIV and AIDS with regard to prevention, treatment, care and support. Further, the Council is charged with seeking out for sustainable financing of the response. Prof. Getui also serves in several community initiatives especially in education and other related social matters. In 2009, she was awarded the Moran of the Burning Spear.



PROF. NABWIRE, KAFWA VIOLET

MKNAS/192/2015

PhD (Moi University), MSc. (Moi University), BSc. (Kenyatta University).

Prof. Nabwire was born in 1966. She is result-oriented and self-motivated researcher, trainer, and project manager with a positive professional ethics, excellent communication skills and a flexible attitude to work. She attained PhD in educational communication and technology from Moi University in 2005, and she is currently a faculty member in the School of Education, Department of Curriculum instruction and educational media at Moi University. Prof. Nabwire is a career educationist and researcher with long working experiences in teacher education, curriculum development, implementation, research methodologies, monitoring and evaluation and programme planning, and management. She mentored over 20 MEd and 7 Ph.D students in research, supervised and assessed undergraduate student and has taught in several secondary schools in Kenya. She has over 22 years working experiences in the university with 10 years in administration and 12 in teaching and research. She has 18 peer reviewed publications and 5 books on education, innovations in education, Educational technology and pedagogy. She has participated in Curriculum Development, Review, Implementation, Mentoring and Evaluation. Prof. Nabwire won Research Grant by the Johann Jacobs Foundation of Switzerland for Ph.D Research in 2002 amounting to over Ksh. 555,000 (Five hundred and fifty five thousand) Kenya Shillings. She participated in the development of Moi University Strategic Plan 2005/2015 and currently an External Examiner at; Nelson Mandela Metropolitan University (NMMU) and University of Kwazulu-Natal, South Africa. She is also supervising graduate students in research at NMMU, and Moi University at the Centre of Excellence in Educational Research Methods and Management in East and South Africa (CERM-ESA). In management. Prof. Nabwire has served as an Associate Dean Moi University School of Education, personal assistant to the Vice Chancellor, and a Project Manager at the Flemish Inter-university Council- VLIR-UOS – collaboration between Moi University and Flemish universities in Belgium. She is a member of the Kenya National Academy of Sciences, and served in the Boards of: Bumbe Technical College, St. Anne's Kisoko Girls High, Butula Boys High, and Kimumu Secondary schools respectively. Professor Kafwa Violet has contributed in drafting of several funding projects at Moi the university including the CERMESA Project.



DR. WEPUKHULU, N. RISPA

MKNAS/193/2015

PhD (Moi University), M. Phil (Moi University), B.Ed. (Moi University).

Dr. Wepukhulu is a lecturer of social sciences and Chairman of Department of Education at Kibabii University. Dr. Wepukhulu obtained her PhD in Social Education and Ethics from Moi University, Kenya. She has served as a principal graduate teacher and head of humanities

and various Secondary Schools and Deputy Principal, Bilibili Secondary School. Her work at various secondary schools won several awards for distinguished academic contributions. Dr. Wepukhulu has contributed academia by mentoring many young social scientists and supervising graduate research projects at undergraduate and post-graduate levels. At Masinde Muliro University of Science and Technology, Dr. Wepukhulu has been a member of the Faculty of Education and Social Sciences Board and warden for the female student hostel. Dr. Wepukhulu has also published widely in refereed journals, manuals, conference/workshop papers, and working documents. She is a member of the Kenya Association of Professional Counselors and Professional Women in Education and Research. She is also a member of Community Outreach Programmes.



PROF. INDOSHI, CHISIKWA FRANCIS

MKNAS/194/2015

B. Ed., M.Phil (Moi), PhD. (Maseno).

Prof. Indoshi was born on 13th October 1963. He attended Erusai Boys Primary School (1974 – 1980) and Menengai High School (1981-1986) before attending the Pre-university induction course at the National Youth Service College in Gilgil in 1987. He then proceeded to Moi University where he earned the degrees of B.Ed (Arts) in 1990 and M.Phil (Curriculum Development) in 1993. He was awarded the Doctor of Philosophy (Curriculum Studies) degree by Maseno University in 2001. After serving as a high school teacher of Geography and History at Musoli Girls and Magui Secondary Schools, Professor Indoshi joined Maseno University (then a university college) in 1993 as a Tutorial Fellow and rose through the academic ranks to attain his current position of Professor in November, 2013. He has taught Curriculum and Instruction courses in the Department of Educational Communication, Technology and Curriculum Studies at Maseno University for the last 24 years. Professor Indoshi was admitted as a member of the Kenya National Academy of Sciences (KNAS) in the year 2015. He is also a member of the Association of Third World Studies (ATWS), the Organization of Social Science Research in Eastern Africa (OSSREA), Society of Educational Research and Evaluation in Kenya (SEREK) and the East African Environmental Network (EAEN). He has attended and contributed to several learned conferences. His research interest is in the field of Curriculum and Instruction. As a researcher and supervisor of postgraduate students, Professor Indoshi has published over 60 articles and two book chapters. Professor Indoshi has over the years of his academic career supervised to completion 12 Ph.D and 32 M.Ed students. He has served as External Examiner in various Universities including Nairobi, Egerton, Masinde Muliro, Moi, Laikipia and Dar es Salaam. He has also attracted research funds and served as member and chair of boards of various educational institutions. As Co-ordinator of Teaching Practice Centre (2001-2003) and Chair of the Department of Educational Communication, Technology and Curriculum Studies (2004- to date). His driving vision is quality education for meeting challenges of development and improvement of life.



PROF. WEGULO, NYONGESA FRANCIS

MKNAS/202/2015

PhD (USA), MA (UoN), B.Ed. (UoN).

Prof. Wegulo was born on 6th June 1950 in Kakamega County, Kenya. He is a lecturer at the Egerton University. He attended a local primary school and subsequently proceeded to Kakamega High School for his secondary education. He joined the University of Nairobi (Kenyatta University College) in 1971 to pursue an undergraduate degree course in education, specializing in geography and literature. This was to form the start of his teaching career. While serving as a demonstrator in the department of geography Kenyatta University, Prof. Wegulo enrolled for an MA with the University of Nairobi eventually graduating in 1986. He moved to Egerton University in March 1989, and later that year, left for Clark University, Massachusetts in the USA to study for PhD in economic geography, after which he resumed teaching and research responsibilities at Egerton University in 1993. Prof. Wegulo's teaching and research interests have centered on development geography, especially the role of agriculture and small-scale industries in rural development. His publications have addressed rural-urban linkages and synergies, small and medium enterprises and their role in rural urban development, empowerment of local communities. In all, he has authored over 15 peer reviewed papers, and chapters in books. Prof. Wegulo has also published six (6) books focusing on human/economic geography and research methods; which support the teaching of various courses taught by the departments of geography and economics, mainly at Egerton University. Besides, he has published widely for lower education levels (primary and secondary), in the area of social studies and practical geography. Currently, he is preparing a book chapter on "*role of market centers and small towns in rural development in Africa*", for a book addressing opportunities and challenges facing rural development in Africa and commissioned by Palgrave McMillan of UK. He is also editing a manuscript on the Contemporary Geography of East Africa. Prof. Wegulo has made significant contribution to capacity building through training and mentoring of well over 14 MA/MSc, and PhD students. Many of these are university lecturers, while others are well placed in the private and other public sectors. For ten years (1998-2008) Prof. Wegulo served Egerton University as a director in various capacities, namely: Board of Undergraduate Studies, School of Continuing Education, and College of Open and Distance Learning. He is a member of the Third World Association, OSSREA (Kenya Chapter), and the South African Geographical Society.



PROF. NYAMBEDHA, OTIENO ERIC

MKNAS/203/2015

PhD (Copenhagen), MA (UoN), BA (UoN).

Prof. Nyambedha was born on 26th March 1972 in Ugenya, Siaya County. After his early education at St. Peter's Mumias Boys High School, Prof. Nyambedha proceeded to University of Nairobi where he obtained his BA degree and MA in Anthropology. He later acquired his PhD in Anthropology from University of Capenhagen, Denmark. He is currently lectures in the Department of Sociology and Anthropology at Maseno University. Prof. Nyambedha was one of the pioneer social science researchers on the impact of HIV/AIDS on orphans and vulnerable children in Kenya. He has successfully supervised 18 postgraduate students including one PhD candidate. He is a member of the UN Team drafting the Vallaeta Declaration on HIV/AIDS among the Elderly. Dr. Nyambedha has published 15 articles in scientific peer reviewed journals and four book chapters in reputable academic publishers. In addition, he has presented 16 conference papers in local, regional and international conferences on issues of orphans and vulnerable children (OVC) and the elderly people affected by HIV/AIDS. He is a member of African Research on Ageing Network (AFRAN). He is a reviewer of some of the reputable international journals such as Journal of Public Health Policy, African Journal of AIDS Research, Journal of Cross-cultural Gerontology, and Journal of Educational Studies, BMC Medical Ethics and Health Promotion International Service. He won a DAAD scholarship to study M.A. in anthropology at the University of Nairobi, and a PhD scholarship form Danish Council for research in developing countries (RUF) to study PhD at the University of Copenhagen. Dr. Nyambedha has been awarded research grants by various organizations. He is a visionary leader who believes in Excellence in research and dissemination for improvement of humanity.



DR. MIGOSI, ABERE JOASH

MKNAS /204/2015

PhD (Catholic University), M.Ed. (Moi University), B.Ed (Moi University).

Dr. Migosi was born on 1st August 1967 in Nyamira County, Kenya. He acquired his early education from Kitimbe Primary School in Kericho, Gusii Highlights High School and Itibo Boys High School in Kisii County. He holds a Doctor of Philosophy degree in Educational Research and Evaluation (Higher Education) from Catholic University of Eastern Africa, Master of Education in Economics of Education & Educational Planning (Equity in Issues in Higher Education) from Moi University and Bachelor of Education (Geography and Economics) from Moi University. Dr. Migosi is a lecturer in the Department of Education Studies at the University of Nairobi. Previously, he served as acting Dean, School of Education, founding Chairman, Department of Educational Administration and Planning in South Eastern Kenya University a period of three years. He has served as a teacher rising through the

ranks to become a high school principal. Later on he joined the Ministry of Higher Education Science and Technology, headquarters, where he was in-charge of social sciences desk that was responsible for science parks, intellectual property rights and scientific awards scheme. His key contributions in the ministry included development of the following policies; national science and technology parks; 2010; Kenya framework for science, technology and innovation exchange programme, 2009; Kenya Science Technology and Innovation (KESTI) Awards Scheme, 2010. He was a Kenyan delegate to the East African Community High Level Task Force (HLTF) to negotiate the East Africa Community Common Market Protocol. Dr. Migosi has previously represented the PS, Ministry of Higher Education to the KNAS. Dr. Migosi has taken part in several management courses including Strategic Leadership Development Programme (SLDP), which was the highest course at the Kenya School of Government then. He has undertaken other short courses. In 2011 he took up a full time teaching position as a lecturer at the then South Eastern University College, now South Eastern Kenya University (SEKU). Dr. Migosi lectures in economics of education, education evaluation, educational planning and strategic planning, total quality management in education, higher education studies, educational statistics, education financing, organizational behaviour, corporate governance in education, and education in emergencies. Dr. Migosi has published over twenty five (25) articles in internationally peer reviewed journals. He has actively participated in collaborative writing and presentation of papers in conferences, seminars and symposia. He has successfully supervised over 25 graduate students. He is a member of Educational Management Society of Kenya (EMSK) Full member of Kenya Institute of Management (MKIM), the Global Development Network and Science & Development (Scidev) Network. Dr. Migosi was awarded, by South Eastern Kenya University, the best overall publisher of the year 2014 having published the highest number of articles in internationally peer reviewed journals.



PROF. NGETICH, KIBET

MKNAS/208/2022

BA (UoN), MA (UoN), PhD (Kenyatta University).

Prof. Ngetich was born on 27th December 1966. He went Olmaroroi Primary School, Lelmokwo High School and Kapsakwony High School. Thereafter, he studied at University of Nairobi where he obtained BA and MA degrees. Prof. Ngetich holds a Doctor of Philosophy degree in Sociology from Kenyatta University (undertaken on DAAD Sandwich programme scholarship with University of Cologne and Ludwig-Maximillan University in Munich, Germany). *Currently*, Prof. Ngetich is associate professor of Sociology, department of Peace, Security and Social Studies at Egerton University. He previously worked as a lecturer in the department of Sociology at Kenyatta University. Prof. Ngetich has wide experience in university administration and management, having served as Head of Criminology and Security Studies and later as Dean of Faculty of Arts and Social Sciences at Egerton University until 2017. He has served and continues to serve in several University Committees. He was the chairman of

Kenya DAAD Scholars Association (Egerton chapter) from 2013 to 2017. Ngetich has taught various undergraduate and postgraduate courses in various universities which include Egerton University, University of Nairobi, Kenyatta University, Moi University and University of Applied Sciences (BOKU) in Austria. He has been awarded various fellowships which include British Council Visiting Fellowship (tenable in Edinburgh University), Volkswagen Foundation Fellowship (University of Bonn and Freie Universität Berlin - Germany), East African Scholars Fellowship (SOAS, University of London, United Kingdom). In addition, he has participated various collaborative research (SMACC, OAT, SOILPOT, CRC etc) that has formed the basis for partnerships, collaboration and benefited many postgraduate students. He has (co)published widely and presented refereed papers in local and international forums (conferences and seminars). His publications cover fields of medical sociology especially socio-cultural dimensions of health and illness, as well as health systems. He has also published in areas of gender, agricultural aspects, community development, conflict management and criminology. His publications consist of journal articles, book chapter and co-authored books. He has successfully supervised over forty postgraduate students (MA and PhDs) mainly in sociology, community development and criminology. He has participated in various advanced trainings both as a participant and as resource person. For example, he has been resource person for DAAD sponsored training of PhD students as well as at the Health Institute of the Council for the Development of Social Science Research in Africa (CODESRIA).



PROF. AGWATA, FAIRFAX JONES

MKNAS/211/2022

BSc. (Kenyatta University), MSc. (UoN), PhD (Kenyatta University).

Prof. Agwata is a career Environmental Scientist and Policy expert with several years' experience as a University Lecturer, Trainer, Researcher and Consultant. He is currently an Associate Professor in the Department of Environmental Sciences at Machakos University, Kenya.

Prior to joining Machakos University in January 2019, Prof. Agwata was a Senior Lecturer at the Centre for Advanced Studies in Environmental Law and Policy (CASELAP), University of Nairobi from 2010 to 2018. Between 1993 and 2010, Prof. Agwata was Lecturer and Tutorial Fellow in the Department of Environmental Sciences at Kenyatta University, where he began his academic and professional career. His broad academic and professional interests include environmental science and policy, disaster management, environmental assessment, water resources management, natural resources use conflicts, climate change and waste management. Prof. Agwata serves as lead consultant trainer and facilitator in Environmental Management, Environmental Assessment and Project Management with various national, regional and international organizations. Prof. Agwata is also an external examiner at several Kenyan Universities and the University of Malawi besides being a *Research Fellow* of the American Biographical Institute, USA; *Fellow* of the African Scientific Institute and Life Member of the Kenya Meteorological Society. He also holds membership at the International Society for

Development and Sustainability, Japan; the International Association of Hydrological Sciences, UK; the Kenya DAAD Scholars Association; the Environment Institute of Kenya and the Kenya Bureau of Standard's Environmental Management Technical Committee. Prof. Agwata has previously served in the Acoustics and Noise Pollution Abatement and Occupational Health and Safety Technical Committees of the Kenya Bureau of Standards, the National Environment Management Authority's National Steering Committee on Desertification Process and the National Council for Science, Technology and Innovation and the International Year of Planet Earth. He has attended several courses and presented several papers at conferences and workshops locally and internationally. Besides several book chapters and Journal papers to his credit, Prof. Agwata is registered as a Lead Expert with the National Environment Management Authority, Kenya besides being a trained and qualified Quality Management Systems Auditor.



PROF. OBUCHI, M. SAMUEL

MKNAS/215/2022

B.Ed. (UoN), MA (UoN), PhD (UoN).

Prof. Obuchi is currently an associate professor at Moi University. He is a linguist and an educator whose research areas focus on language use in surreptitious Discourse Texts, Linguistics and Language Education, Language and Interdisciplinary Studies. He sets out to flourish and disseminate the understanding of Discourses in the context of a worldwide linguistic audience while interrogating fundamental Discourse issues against current discursive postulations. Prof. Obuchi holds a B.Ed degree (1992, Hons), MA (Swahili Studies, 1996) from the University of Nairobi. In 1997, he was employed as an Assistant Lecturer at the University of Eastern Africa, Baraton. He held this position till 2000 when he was promoted to the position of Lecturer. In 2008 he graduated with a PhD Degree in Linguistics and in 2009, he was elevated to the position of Senior Lecturer. Thereafter, he served as Senior Lecturer at University of Kabianga (2011-2013). Apart from establishing an Electronic Library, he helped design Curriculum for BA/B.Ed (Baraton), MA (Kiswahili & Literature-Kabianga University) and curriculum for campus HIV prevention (Baraton). Between 2013 - 2015, he was engaged by KICD as a Committee Member in reviewing and harmonizing curriculum for Kiswahili and English by formulating minimum standards for High school in Kenya. Prof. Obuchi has served both as Internal and External Examiner (2011-2016). He served as Internal Examiner: Moi University, Baraton University, and External Examiner: MMUST, Chuka, Rongo. He continues to serve as a member of BoM in Four schools (Njenga Karume Secondary, Sitoito Secondary, Greatlink High School and Tenwek High School). He has been awarded several research and Travel Grants, e.g., UEAB Faculty Grant, and The Yale Council on African Studies. At Moi University he has been involved in Curriculum design and implementation, Planning, and conducting workshops and seminars for MA and PhD students; Developing teaching Modules for Open and Distance Learning, supervision of Undergraduate and postgraduate students; Chairing, Seminars, Conferences and Publication

committee. He has mentored many Undergraduate and postgraduate students through co-authorship of journal articles, book chapters and books. He has attended many local and International workshops and conferences. Between January 2011 and July 2014, he served at the University of Kabanga where he participated in overseeing Design and implementation of degree programmes for undergraduate and postgraduate students; engaged in establishing the University Research agenda geared towards advancing community Development and integration as an outreach programmes; he served in the University Editing and publication committee and Chaired the Research & Extension Monitoring committee. He worked as a Consultant with CfBT Education Trust (2012 January to December) in developing the capacity of education Managers and secondary school heads in the country to develop strategic plans. He Delivered Decentralized Education Management Authority (DEMA's) approach to district education sector. He trained secondary school heads on SPs and Performance Based Management in Kisii County.



PROF. OKELO, NYAARE BENARD

MKNAS/ 224/2022

B.Ed. (Egerton University), MSc. & PhD (Maseno University).

Prof. Okelo is a pure mathematician by profession and prolific researcher in mathematical sciences and applications to other fields. His research interest is in functional analysis, particularly, operator theory. His research and professional career has been centered on mathematics and applications to other fields like business, economics, education, and agriculture and food security among others. Currently, his research is on Hilbert space operators and their applications to petroleum technology and utilization of solar energy. He has produced more than 30 publications in internationally refereed journals and was ranked amongst the top young scientist in 2013 by AU-TWAS. He endeavours to mentor young scholars who aspire to become researchers. He endeavours to do research that has applications to other areas like Quantum Mechanics; Mathematical Modelling and Analysis; Contemporary Issues in Special Needs Education; Business and Economics; Computing and Information Technology. The output of his research is for solving real life problems of socio-economic nature in Kenya (and other developing countries), Africa and Globally. Currently at Jaramogi Oginga Odinga University of Science and Technology (JOOUST).

3.3 PHYSICAL AND CHEMICAL SCIENCES



PROF. MUNAVU, M. RAPHAEL

FKNAS/027/1986

B.A. [Kalamazoo] MSc. [Wayne], PhD [Detroit], FAAS, EBS, OGW.

Prof. Munavu is the current Chairman of the Kenya National Academy of Sciences (KNAS). He was a Professor of chemistry of the University of Nairobi, and former Chancellor of Laikipia University and Commissioner of the Commission on Revenue Allocation (CRA). Prof. Munavu attended Kalamazoo College (BA, 1967-1970); Wayne State University (MSc. 1970-1972) and the University of Detroit (PhD, 1972-1975). He is a specialist in environmental, industrial and organic chemistry, and has published over 60 refereed and commissioned papers. He has also written extensively on the role of Higher Education, Science, Technology and Innovation in socio-economic development. He has also undertaken consultancies on impacts on during utilization of various natural resources in Kenya. His research focus has been in discovering and developing appropriate and innovative chemical processes for the conversion of locally available resources into useful products. His scientific achievements include: a) conversion of readily available carbohydrates (sucrose, lactose, fructose and glucose) into furfural, hydroxymethyl furfural (HMF) and HMF dimmers using DMSO. The Products of the reactions have potential industrial uses. b) Selective esterification of carbohydrates using dibutylstannylene intermediates. c) The non-catalyzed conversion of diols into methylene acetals using DMSO and bromine. Prof. Munavu was the first to report on this reaction, whose intermediate (trimethylsulphonium bromide) is now commercially available. d) Extraction, chemical studies, and potential use of vegetable oils from the seeds of local plants. The oils of *Croton megalocarpus*, *Jatropha* and cape Chestnut are now being piloted for production of biodiesel in Kenya. The work led to experimental introduction of Jojoba and safflower in Kenya and chemical character of natural products from local plants. His previous academic positions at the University of Nairobi include; Lecturer in chemistry (1976-1980); Senior Lecturer (1980-1986); Associate Professor (1986-1995); Professor (1995-present); Dean, Faculty of Science (1987-1990). His administrative positions include: Principal, Laikipia College (Egerton University, 1990-1992); Deputy Vice Chancellor (Admin. and Finance), Egerton University (1992-1994); Deputy Vice Chancellor (A&F), University of Nairobi (1994-1998); Vice Chancellor, Moi University (1998-2002); Chairman, KNEC (2001-2009), Chairman, SEUCO/SEKU Council (2008-2013). He was the Chancellor of Laikipia University (2013-2018). He has received the following awards: Senior Fulbright Scholar, University of Michigan (Jan 1983-July 1983); Fellow of the African Academy of Sciences, FAAS (2013); Elder of the Burning Spear, EBS (2001); Order of the Grand Warrior, OGW (1997); Doctor of Humane Letters, Honoris Causa (Kalamazoo College, 2000) and Doctor of Science, Honoris cause (Laikipia University, 2013).



PROF. ONSONGO, MARASI WINSTON

MKNAS/019/1984

BE (Canterbury, New Zealand), MSc., PhD (Toronto, Canada).

Prof. Onsongo holds a BE (Civil) (Hon) from Canterbury University, New Zealand, and an MSc and PhD degrees from the University of Toronto, Canada. He has for many years lectured on structures courses and has served as a consulting engineer on many projects. He has held senior administrative academic positions and published many papers on structural concrete. Prof. Onsongo is a registered engineer and has served on ECSA and SAICE committees. He is currently employed by MPA Consulting Engineers as a senior structural engineer and is a visiting professor at the Wits School of Civil and Environmental Engineering. Prof. Onsong is part of the Engineering Council of South Africa.



PROF. OGANA, WANDERA

FKNAS/ 031/1994

BSc. (E.A.), MSc. & PhD (USA).

Prof. Ogana was a Professor of mathematics at the School of Mathematics, University of Nairobi, Kenya. He obtained his BSc (Honours) in mathematics in 1970 from the University of East Africa, Nairobi, Kenya. He proceeded to Stanford University, USA, where he obtained MSc (1973) and PhD (1976) in Applied Mechanics. Thereafter he worked at NASA Ames Research Center, as a Postdoctoral Research Associate, till 1977 when he returned to Kenya and was employed as a Lecturer in the Department of Mathematics, University of Nairobi. He rose to become Professor in 1991. He served as chairman of the Department (1983-1992) and Dean, Faculty of Science (1995-2000). In his PhD thesis, Wandera Ogana reconciled two formulations of the transonic integral equation by showing that they depended on the shapes of the cavities used to enclose the singularities. He further developed new boundary element schemes for solving transonic integral and integro-differential equations. In subsequent years, Prof. Ogana diversified his research interests to mathematical modeling in wind energy, vector-borne diseases under global change, and ecology. He developed a mathematical model for describing the vertical distribution of insects in free flight, at rest or when trapped. Apart from the academic and research interests, Prof. Ogana has participated in diverse activities associated with the promotion of science and mathematics. He is a Fellow of the African Academy of Sciences (AAS), from 2006, and a Fellow of the Kenya National Academy of Sciences (KNAS), from 1994. Currently, he serves in a number of international committees, namely: Vice President, African Mathematical Union (AMU), East Africa, from June 2013; African Member, Commission for Developing Countries (CDC) a commission of the International Mathematical Union (IMU), from 2010; Board Member of the Mentoring African Research in Mathematics (MARM), from 2005; Programme Director, African Mathematics Millennium

Science Initiative (AMMSI), from 2004. He has also played other roles, namely: member of the Committee for the Problems of the Environment (SCOPE), 2005-2008; Chair of the Writing Group of the African Mathematics Millennium Science Initiative (AMMSI), 2002- 2003; member of the Global Analysis Interpretation and Modeling (GAIM) Task Force of the International Geosphere-Biosphere Programme (IGBP), 2001-2007; member of the Scientific Committee of the International Geosphere- Biosphere Programme (SC-IGBP), 1999-2005; member of the Working Group I for the Third Assessment Report (TAR) of the Intergovernmental Panel on Climate Change (IPCC as one of the lead authors in Chapter 8: Model Evaluation, 1998-2000; Chair of the PACOM (Pan-African Committee for START), 1996-2000; member of the Executive Committee of the African Mathematical Union, 1995-2000; member of a team of lead authors commissioned to prepare the IPCC Technical Paper III on “Stabilization of Greenhouse Gases: Physical, Biological and Socio-Economic Implications”, for the Intergovernmental Panel on Climate Change (IPCC); 1996-1997. He has published over 40 articles in mathematics, three novels, one collection of short stories and several literary articles. He has also attended over 100 international and national conferences and made presentations at many of them.



PROF. GICHAGA, J. FRANCIS

FKNAS/ 039/1994

BSc. (E.A.), MSc. & PhD (UoN), FIEK, FICE, MBS.

Prof. Gichaga is a registered engineer in Kenya and chartered engineer in the UK. Additionally he is a fellow of the Institution of Engineers of Kenya as well as that of the Institution of Civil Engineers in the UK. He resides in Kenya where he teaches at the University of Nairobi. Prof. Gichaga obtained his BSc. (First class honours) in civil engineering from the University of East Africa, MSc. and PhD from the University of Nairobi. He is an authority in a complex area of civil engineering relating to transportation engineering notably airfield and highway pavements. His areas of specialization and research interests include: transportation engineering; pavement evaluation and rehabilitation; soil mechanics and foundation engineering; university management. He has published widely in these areas. Prof. Gichaga was appointed Chairman of the Civil Engineering Department of the University of Nairobi in 1977, the post he served in for eight years. He was elected and served as Dean of the Faculty of Engineering after which he was appointed Principal of the College of Architecture and Engineering. He was appointed Deputy Vice-Chancellor (Academic Affairs) in 1991 and in December the same year he was appointed Vice-Chancellor of the University of Nairobi, a position he held until March 2002. Prof. Gichaga has served as chairman of many boards and councils including: The National Council for Science and Technology; Kenya Polytechnic University College Council; Kenya Agricultural Research Institute; Kenya Institute for Public Policy Research and Analysis; Water Services Regulatory Board; National Irrigation Board, and Kenya Technical Teachers College Board of Governors. In January 2010, Prof. Gichaga was appointed, by the President, Chancellor of Jomo Kenyatta

University of Agriculture and Technology which university honored him with Doctor of Science *honoris causa*. Prof. Gichaga has been decorated with the following awards among others: Elder of the Order of the Burning Spear, (EBS) (1986); Dr. Kaburu Memorial Award by the Institution of Engineering's of Kenya (1990); Moran of the Order of the Burning Spear, (MBS) (1990) and The Highest Award of Honour by SOKA University, Japan (1992). In respect of community service and affiliation, Prof. Gichaga chaired the technical committee which developed the proposal that led to the award of the Letter of Interim Authority, to the Presbyterian University of East Africa, by the Commission for Higher Education. Prof. Gichaga led the team that developed the Kenyan Car and presented two saloon cars and pick-up prototypes in 1990. He has additionally participated in major consultancies and research projects.



PROF. GUMBE, OTWEYO LAWRENCE

FKNAS/ 040/1994

BSc. (UoN), MSc. (UK), PhD (USA), R.Eng, MIEK.

Prof. Gumbe was born in Kisumu on 28 July 1957. He holds a Ph.D. degree from the Ohio State University, USA (1984), an M. Sc. degree from Cranfield University, UK (1981) and a B.Sc. degree from the University of Nairobi, Kenya (1980). He has been a member of several learned societies including the Institution of Engineers of Kenya (IEK), Association of Consulting Engineers of Kenya (ACEK), the Architectural Association of Kenya (AAK), the American Society of Agricultural Engineers (ASAE), the Kenya Society of Agricultural Engineers (KSAE), the American Society of Heating, Ventilating and Air-conditioning Engineers (ASHRAE). He has been a council member of the Architectural Association of Kenya, Institution of Engineers of Kenya and Engineers Registration Board. He is a Registered Consulting Engineer with the Engineers Registration Board of Kenya. He has been an academic member of staff of the Department of Environmental and Biosystems Engineering of the University of Nairobi since 1981. He has successfully supervised many doctoral and masters degree candidates and has published widely. He has been the director of programmes at the Africa Centre for Technology Studies (ACTS), Nairobi, from 2005 to 2007. He has been a visiting scholar in several universities and has worked as a consultant in Kenya, Malawi, Uganda, Tanzania, Sudan, Ethiopia, Rwanda, Zambia, the UK and USA. As an Engineer, he has been the Chief Executive Officer of Log Associates, a firm of consulting engineers, economists and planners from 1994. The firm has worked in various countries including Kenya, Uganda, Tanzania, Zambia, Malawi, Sudan, Somalia, Lesotho, Namibia, Botswana and the UK. He has been a director of several projects, assuring quality and overall direction and coordination of the same. He has wide consultancy experience in: Politics; economics; trade and policy analyses; feasibility studies; energy; water supply; valuation of machinery; design and construction supervision of factories; design, construction and testing of machinery; project appraisal, monitoring and evaluation of industries; and structural design. He was elected chairperson of the Centre for Multiparty

Democracy-Kenya in January 2007. He was re-elected in March 2009 for a final term of 2 years. CMD-K is an umbrella institution of political parties in Kenya. Its role is to further the interests of political parties in order to promote a vibrant and effective multiparty system. The centre effects policy research and analysis on pertinent political issues as well as acting as a forum for mediation amongst political parties. Prof. Gumbe has served on the board of many philanthropic and development institutions such as the Leo Club, Clarion, Kisumu County Roads Committee and Nyanza Professional Caucus. He speaks English, Kiswahili, Dholuo, Lingala, French and some Arabic.



PROF. MIDIWO, OGWENO JACOB

FKNAS/ 044/2011

BSc. (UoN), PhD (Maryland, USA).

Prof. Midiwo was born in 1953. He undertook his BSc degree course in Chemistry at the University of Nairobi graduating in 1976. He proceeded to the University of Maryland, College Park, USA to pursue a PhD programme in organic chemistry with a focus on isolation, characterization and structural modification of fungal mycotoxins metabolites with potential in cancer chemotherapy. He obtained the PhD from the University of Maryland, College Park in 1981 and took up lectureship position at his *alma mater* in 1981. Prof. Midiwo has done extensive research in natural products, especially medicinal plants from a range of plant families and published over 130 papers in refereed journals and conference proceedings describing the structures and bioactivities of natural compounds with various bioassay models. In the process he has supervised more than 40 post-graduate students and guided them to PhD and MSc degrees at the University of Nairobi. He has been an external examiner to a number of universities across the region for undergraduate examinations and post-graduate students. Prof Midiwo has attracted research funding from organizations such as Organization for Prohibition of Chemical Weapons (OPCW) at The Hague, L'Oreal and Analytic on Companies in Europe and USAID through Kenya Agricultural Research Institute. He is closely associated with the Natural Products Research Network for Eastern and Central Africa (NAPRECA) which has branches in 11 East African countries. He became the Executive Secretary of NAPRECA in 2004 after being chairman of NAPRECA-Kenya for four years. He is also a member of the Kenya Chemical Society and the American Chemical Society. Prof. Midiwo was the Director of the Board of Common Undergraduate Courses (BCUC) at the University of Nairobi in-charge of courses that students take across their disciplines in the quest to make them holistic graduates (2007-2015). He is currently a Professor of Chemistry at the University of Nairobi (since 2002).



PROF. ODADA, ONYANGO ERIC

FKNAS/ 048/1994

PhD (London, UK), MSc. (Austria), BSc. (Russia).

Prof. Odada retired as a full Professor of Quaternary Geology at the University of Nairobi. He obtained his PhD in Marine Geochemistry from Imperial College, London University (1986). He joined the University of Nairobi as a Lecturer since 1989. Before joining the University, he served as Chief Research Officer, Kenya Marine and Freshwater Research Institute (KMFRI) and Principal Geologist with the Mines and Geology Department, Ministry of Environment and Natural Resources, Kenya. Prof. Odada is a Fellow of Geological Society of Kenya (GSK) and World Academy of Arts and Sciences. In addition, he has served as a member of several international committees. A few of which are: Global Environmental Facility Scientific and Technical Advisory Panel (GEF-STAP); Committee for Scientific Planning and Review (SCPR) of ICSU; International Geosphere-Biosphere Programme Scientific Committee (IGBP-SC); Scientific Committee for Global Change Research and Capacity Building in Africa (START); and Scientific Liaison Officer of European Network for Research and Capacity Building in Global Change (ENRICH). He is currently a member of the United Nations Secretary General's Advisory Board (USGAB) on water and sanitation and Director of United Nations University Regional Centre for Water Education based in Nairobi, Kenya. Professor Odada is cited for the distinguished service to the African Scientific Community in Global Change Research and Capacity Building. He was the Programme Director of the Pan African START Secretariat, a programme hosted by the University of Nairobi and Kenya National Academy of Sciences in 1997. As founding Director of the programme he has built a strong network of scientists in Africa, motivate and mobilized African Scientists in various fields of global change research such as the impacts of climate change on water resources, food security, energy, health, ecosystem and sustainable development. He is currently leading a research of Africa, European and North American Scientists working on ecosystem services for poverty alleviation in sub-Saharan Africa. He is also very active in science driven policy initiatives and has published many books and papers in peer-reviewed journals. His efforts in promoting global change research and capacity building has resulted in the establishment of a network of highly specialized African scientists who are now promoting sustainable development of Africa and the world.



PROF. ADUDA, ODHIAMBO BERNARD

FKNAS/ 079/2011

PhD (London), DIC, MSc. (Nairobi), B.Ed (Nairobi).

Prof. Aduda graduated with Bachelor of Education (B.Ed) in 1984, after which he enrolled at the Department of Physics, University of Nairobi to pursue a Masters Degree in physics (specializing in Materials Science). In 1988, Prof. Aduda proceeded to Imperial College, London for his PhD

in Materials Science, graduating in 1991. He has since risen in ranks to the position of Professor (2005), Principal of the College of Biological and Physical Sciences (2011), and Deputy Vice Chancellor – Academic Affairs at Egerton University. Prof. Aduda has published 63 papers in refereed journals in various areas of materials science, but focusing mainly in the following areas: thermophysical properties of materials, photovoltaics, especially dye sensitized solar cells; elastic wave propagation in materials for non-destructive evaluation of materials, nanotechnology for use in solar cells and water purification, and knowledge brokerage. He has supervised several MSc and PhD students, and has attracted grants several worth several millions (KSh) to develop the Solar Energy laboratory at the University of Nairobi. He has had prestigious fellowships such as the ICTP's Associate Programme (1993-1999), Commonwealth Fellowship (Imperial College London, 2002-2003), American Science Foundation (2007, Princeton University), International Science Programme (1999, Uppsala University) Besides teaching and research, Prof. Aduda has been actively involved in the promotion of use of non-destructive testing techniques (NDT) in Kenya industrial sector as a member of the Kenya NDT Society (KNDT), promotion of science as a member of other professional societies such as the Kenya Physical Society (KPS), Africa Materials Research Society (AMRS), and the Kenya National Academy of Sciences (KNAS). Prof. Aduda has served serves as a member of Council of – The National Council for Science and Technology (NCST), and The Kenya Polytechnic University College (KPUC), and Honorary Treasurer of the Network of Africa Academy of Sciences (NASAC). He is a fellow of the Kenya National Academy of Sciences (2011).



PROF. AKECH, OPIYO NORBERT

MKNAS/080/2004- DIED MARCH 2022

PhD. (Leicester), MSc. (UoN & Colorado School of Mines), BSc. (UoN).

Prof. Akech holds a Ph.D. degree from the University of Leicester in Geochemistry (1988). He has since then been engaged in teaching, and research at the Department of Geology, University of Nairobi. He was the Dean, Faculty of Science and Dean, School of Physical Sciences, University of Nairobi (2003-2007). He, since 2007, represented Africa in the technical working group (WGB) of the International Monitoring Stations for the Comprehensive Nuclear Test-Ban Treaty Organization (CTBTO). In this capacity he is the Task leader for National Data Centers (NDCs) worldwide. He served Chairman of the Board of Governors (BOG) for Ramogi Institute of Advanced Technology (RIAT), a tertiary college under the Ministry of Higher and Technical Education. He is also the Manager of International Monitoring Stations for the Comprehensive Nuclear Test-Ban Treaty Organization (CTBTO) Stations in Kenya. Prof. Akech managed several other projects including being the Editor-In-Chief of the African Journal of Science and Technology (AJST) and has actively been engaged with the oil exploration industry and mining industry, having carried-out environmental assessments and audits for several companies and organizations. He has worked with the international

organizations and was country representative Regional Integrated Information and Monitoring for Community-Based Environmental Coastal Management (LOICZ-Project). He was involved in the developed remote sensing, Geographic Information Systems (GIS) databases. He was also a member of a UNEP/UNIPAC team charged with the task of looking at the effects of climate change at the coastal zone. He was charged with the task of quantifying the effects in both the groundwater systems and surface water. He was also the head of the task team on the UNEP/HABITAT sponsored Nairobi waters project that was looking at the major pollutants into the Nairobi Rivers.



PROF. BAKI, O. PAUL

FKNAS/ 083/2011

PhD, MSc., BSc.(UoN).

Prof. Baki was born in Rageng’ni Sub-location of East Uyoma Location of the then Siaya District. Prof. Baki attended Rageng’ni Primary School, Cardinal Otunga High School (Mosocho) for O-Levels, St. Mary’s Yala for Advanced Level before proceeding to the University of Nairobi for his degree: Bachelor of Science in Physics and Mathematics (1992), Masters of Science in Physics (1994), and Doctor of Philosophy in Theoretical Physics (1999). In the University system, he was first appointed Graduate Assistant (1993), and rose through the ranks to become an Associate Professor (2009) in the Department of Physics, University of Nairobi and thereafter to full Professor of Physics (2014) at the Technical University of Kenya. He has served as Associate Dean (2011-2013) and Director of the School of Physical Sciences and Technology (2013- 2018) at the Technical University of Kenya. Professor Baki is an accomplished space physicist with extensive international networks and good publications record, supervision of graduate students and serves as a reviewer with top notch journals in Space Physics, which includes inter-alia, *Advances in Space Research*, *Journal of Atmospheric and Solar Terrestrial Physics*. Baki is affiliated to many professional organizations, namely: International Astronomical Union (IAU), East African Astronomical Society, Physics Society of Kenya, African Geophysical Society, among others. He sits on many international committees: Scientific Committee on Solar-Terrestrial Physics (SCOSTEP), Chair, Inter-ministerial Committee on Square Kilometre Array (SKA) and is an accomplished policy maker e.g. member of the African Union Space Working Group, which developed the African Space Policy & Space strategy as well as Statutes for the African Space Agency; member, United Nations Committee on Peaceful Uses of Outer Space (UNCOPUOS)- specifically Expert Group C (Space Weather) on Long term sustainability of Outer Space Activities; chair of committee that drafted Kenya Space Policy & Strategy, which paved way for the establishment of the Kenya Space Agency. He has participated in the development of key Government of Kenya strategic documents such as Medium Term Plans (MTP) for the Ministry of Education , namely (MTP II 2013- 2017 & MTP III 2018-2022), and the strategy for the establishment of National Physical Sciences Research Laboratory. Prof. Baki appeared in the 2014 edition of Marquis Who’s Who in Physical Sciences in the World and has been awarded certificate of

excellence in peer review of the Journal of Atmospheric and Solar-Terrestrial Physics (2015 & 2017). Prof. Baki joined Kenya National Academy of Sciences as a Member in 2003 and became a Fellow in 2011. His Vision is to see Kenya become a key player in the Global Space Industry in the same league as NASA and ROSCOMOS of Russia.



PROF. KABAARA, MUKATHA ADRIEL

MKNAS/086/2004

BSc (London), MSc. (Aberdeen), PhD. (Bristol, UK).

Prof. Kabaara has worked as a soil Scientist for over 10 years in the world soil survey; research Director for 19 years and Research Adviser for 4 years at different institutions. Prof. Kabaara did BSc (London), MSc. (Aberdeen), and PhD. (Bristol, UK). He joined the Empire Cotton Growing Corporation (from 1966 the Cotton Research Corporation) about 1956 and was appointed Soil Chemist at Ukiriguru. In 1963, he exchanged places with Peter Le Mare, Peter moving to Ukiriguru and Adriel Kabaara to Namulonge. Later he became the director of the Jacaranda Coffee Research Station near Ruiru, Kenya, and then he held a similar post in Papua New Guinea.

PROF. MWABORA, MWAKONDO JULIUS

MKNAS/ 100/2004



He

PhD (Dar es Salaam), MSc., BSc. (UoN).

Prof. Mwabora earned a BSc. (Physics major) and MSc. in Physics from the University of Nairobi (UoN) in 1990 and 1993, respectively. He received his PhD. in Physics from the University of Dar es Salaam in 1999. He joined the Department of Physics at the UoN in 1992 as a Graduate Assistant, was promoted Tutorial Fellow in 1994, to Lecturer in 2000, to Senior Lecturer in 2003, to Associate Professor in 2009, and to Full Professor in 2014. He was the Coordinator, Self Study Centre, UoN from 2006 to 2013. He has served as the Chairman, Department of Physics, UoN (2013 – 2019). He has acted severally as Dean, School of Physical Sciences, UoN since 2014. Prof. Mwabora's stints as a visiting researcher at Graduate and Postdoctoral levels at the Institute of Energy Conversion, University of Delaware, USA under the Fulbright programme (1997-1998), Ångström Laboratory, Uppsala University, Sweden (2001 and 2002) under the International Science Programmes, and Heterogeneous Material System Section (SE2), Hahn-Meitner-Institute (Now Helmholtz Centre for Materials and Energy Berlin), Germany (2005 and 2009) under DAAD Fellowship exposed him to international collaboration and multidisciplinary nature of materials science, solar cells research and Energy. His current research interests are Dye sensitized solar cells, Nanomaterials for Energy and Environment, Thin Films, Materials, and Energy. Prof. Mwabora has many years of research, teaching

experience and expert advice experience to government of Kenya. To date he has supervised five Ph.D. and ten M.Sc. student theses to completion, published over thirty scientific articles in peer reviewed journals. As of 2015, Google Scholar reports over 800 citations to his work. He has given numerous invited talks and involved in Education, Science, Technology and Innovation policy issues. Professor Mwabora was the Team Leader in Pre-Feasibility studies for Kenya's Nuclear Power Programme under the Kenya Nuclear Electricity Board from 2012 to 2013. Currently, he is a Board Member, UoN Science, Technology and Innovation Park and the Country Liaison Physicist, International Union of Pure and Applied Physics. Professor Mwabora is a Member of many professional bodies including Kenya National Academy of Sciences (Currently Hon. Assistant Secretary, Chemical and Physical Sciences and Council Member), Physics Society of Kenya (Currently the Secretary), European Physical Society, and Solar Energy Network for Eastern and Southern Africa, Kenya DAAD Scholars Association, UoN Alumni Association, Institute of Physics and Fulbright Alumni-Kenya Chapter.



PROF. OKOTH, WANDAYI

MKNAS/ 109/2004

PhD (Zurich), MSc., BSc. (London).

Prof. Okoth was born in 1955. He attended Sidindi and Mudhiero primary schools between 1962 and 1968 before proceeding to Sawagongo High School (1969 – 1972) and Alliance High School (1973 – 1974). He graduated from Imperial College, University of London in 1978 with a B.Sc. (Eng) degree in Chemical Engineering and later obtained M.Sc. Food Science and Technology (1984) and Doctor of Technical Sciences (Dr. Sc. techn.) in Food Process Engineering (1990) from the University of Nairobi and ETH Zurich (Swiss Federal Institute of Technology, Zurich) respectively. Prof. Okoth has been an Associate Professor in the Department of Food Science, Nutrition and Technology of the University of Nairobi (DFSNT) since 2004, having risen through the ranks from the position of Assistant Lecturer in 1985. He served as Chairman of DFSNT between February 2004 and February 2013. He was the Associate Dean of the Faculty of Agriculture between 2013 and 2016. He earlier worked at Kenya Fluorspar Company as Chemical Engineer and later Transport Manager between 1978 and 1980. Prof. Okoth has been teaching Food Engineering and Food Technology courses to both undergraduate and postgraduate students for the last 33 years. He has supervised 24 M.Sc. and 7 PhD students to completion. He has also been able to attract research grants to the University of Nairobi. He has over 60 papers in refereed journals, 30 conference papers, 1 book, 6 book chapters and 20 technical reports. Prof. Okoth has also served the food industry in other ways. Firstly, by being the Secretary of Kenya Institute of Food Science and Technology (1990-1994). Secondly, by being a member of the Board of Directors of GS1 Kenya, a service organization whose membership includes most food processing companies. Thirdly, by working as a consultant for many food companies on various tasks such as plant design, feasibility studies, technical assessment, plant/machinery valuation and

improvement of energy utilization efficiency. Prof. Okoth was a recipient of a Kenya Government scholarship for B.Sc. studies and Swiss Government scholarships for his M.Sc. and Doctor of Technical Sciences. He received a Commonwealth Fellowship to conduct research work at the University of Reading, UK in 1994-1995. His name was included in the 8th Edition 2005-2006 of Marquis Who's Who in Science and Engineering. He is a member of the Kenya National Academy of Sciences (2004) and a senior member of the American Institute of Chemical Engineers (2015). Prof. Okoth is driven by the desire to see a world in which poverty, hunger and malnutrition are eliminated with the help of sustainable food preservation and processing technologies.



PROF. OLAGO, OCHIENG DANIEL

FKNAS/ 110/2004

PhD (Oxford), MSc., BSc. (UoN), MGSK, RGEOL.

Prof. Olago was educated at the University of Nairobi where he graduated in 1989 with a BSc. degree (First Class) in Geology/Physics and in 1993 with an M.Sc. in Geology as a DAAD Scholar. He was elected the Rhodes Scholar for Kenya in 1990, and under that programme undertook his D.Phil. studies at the University of Oxford, graduating in 1996. Professor Olago, currently Associate Professor of Geology and Director of the Institute for Climate Change, University of Nairobi, has served as an academic member of staff at the University of Nairobi in the Department of Geology since 1995, and in the Institute for Climate Change and Adaptation as the Coordinator for Natural and Basic Sciences and Head of the thematic area “Environment, Water and Ecosystems” from 2013 to 2020. Prof. Olago has been involved in multi-disciplinary research projects, training, capacity building activities and consultancies on global environmental change in sub-Saharan Africa for just over 30 years, including supervision of PhD (13 completed) and MSc students (34 completed) as well as postdoctoral fellows (4, two completed). His research interests are in the following areas: Environmental Geology, Water Resources and Hydrogeochemistry, Palaeoclimatology and Palaeoecology, Geolimnology, and Global Environmental & Climate Change – Past, Present and Future. Indeed, his research work revolves around the interface of the lithosphere, biosphere, hydrosphere and atmosphere, and also touches on the social and ecological dimensions that relate to the four spheres. He has published widely in these fields of research, with over 140 publications (90 peer reviewed journal articles, 21 peer reviewed book chapters, 12 edited books, 6 papers in peer reviewed proceedings, 8 white papers, and several technical reports). Prof. Olago has received several merit and research awards. In 1989, he won a DAAD scholarship to undertake his Masters degree at the University of Nairobi, and in 1990 won the only Rhodes Scholarship for Kenya to undertake his PhD at University of Oxford, UK. In 1998, Prof. Olago won the International START Young Scientist Award for a paper that was published in *Global and Planetary Change* Vol. 26(1-3): 159-171. He was also a Lead Author in the Intergovernmental Panel on Climate Change Fourth Assessment Report that won the Nobel Peace Prize for 2007. He has also been recognised by the African Academy of Sciences

(AAS) and the Association of Commonwealth Universities (ACU) for successfully supervising two postdoctoral research fellows between 2015 and 2017. Over the years, Prof. Olago has won several research and development grants. Currently, he is involved in five on-going research projects as a Co-Principal Investigator and directing the research efforts in Kenya. These projects are funded to a cumulative total of over Ksh. 2.6 billion. Prof. Olago is recognised internationally as a scientist of repute. He is a past member of the IGBP-PAGES Scientific Steering Committee and the CLIVAR-VACS Panel. Presently, he is a Fellow of the African Academy of Sciences (elected 2016), Fellow of the Geological Society of Kenya (elected 2007), and member of the Kenya National Academy of Sciences since 2005. He has also served as Chairman of the Geological Society of Kenya for two terms. Currently, Prof. Olago is Chairman, Network of African Science Academies (NASAC) Water Programme Steering Committee, and a member of the International Lake Environment Committee (ILEC). He also serves as an Editorial Board Member of *Palaeoecology of Africa* (since 2007), *The Holocene* (since 2005) and *Quaternary International* (since 2004) and is the Founding Editor (2013) of the *Africa Journal of Physical Sciences* that is published online by University of Nairobi.

PROF. PATEL, PURSHOTTAM JAYANTI

FKNAS/ 118/2004



PhD (UoN), MSc. (Ontario), Dip.Ed, MSc. BSc. (E.A.).

Prof. Patel spent early childhood in Gilgil and then moved to Kisumu where he completed his primary and secondary education at Kisumu High School. Thereafter, he proceeded to the Royal Technical College of East Africa, Nairobi for his A-level studies, which he completed in 1963. Prof. Patel was in the first batch of physics graduates of University of East Africa in 1966. After completing his graduate studies in Canada he joined the University of Nairobi in 1971 as a lecturer. He has been there since his first appointment and rose to the rank of associate and full Professor in 1986 and 1992 respectively. Prof. Patel has been lecturing in physics/geophysics and actively involved in geophysical research. Early academic years were spent in mapping the magnetism of Kenyan rocks and later got involved in nuclear geophysics research. As the Head of thematic section geophysics, Prof. Patel has supervised eleven MSc and five PhD students. Prof. Patel has published 55 scientific papers in his field in refereed journals, one laboratory manual and a lecture series in geophysics. He has formulated and implemented six major research programmes. Prof. Patel has been awarded distinct fellowships, including: Fulbright Senior Fellow (USA), NRC/CIDA Senior Research Associateship, Canada; Aggrey Memorial Fellowship (USA) and German Scientific Exchange Fellowship. He has been Chairman for Commission of Geothermics and Heatflow Commission of Africa and Middle East; Vice-Chairman of International Association and Aeronomy Session V; member of Geological Society of Kenya, International Council of Scientific Development and Kenya National Association of Physics.



PROF. RADING, ODERA GEORGE

FKNAS/119/2004

PhD (Alabama, USA), MSc. (UoN), BSc. (Dar es Salaam), MIEK.

Prof. Rading was born in 1955. He holds a BSc degree in mechanical engineering (1st class honours) from the University of Dar-es-Salaam (1979), an MSc degree in Mechanical Engineering from the University of Nairobi (1983) and a PhD degree in Metallurgical and Materials Engineering from the University of Alabama, USA (1994). He is a former Fulbright and DAAD scholar and currently holds the position of associate professor in the Department of Mechanical and Manufacturing Engineering, University of Nairobi. Prof. Rading has spent most of his working life (over 27 years) in academics having taught at undergraduate and post-graduate levels in universities in Kenya (Nairobi, Moi and Jomo Kenyatta) and abroad (KIST in Rwanda and Alabama in the USA). In the course of his duties, he has successfully supervised two PhD and two MSc students to graduation. He currently has four PhD and two MSc ongoing supervisions. He has authored two university level books (one as a single author and the other as a co-author), over 20 journal papers (the majority in international journals), and over 20 conference proceedings. He has also served as an external examiner in four universities (Moi, Egerton, Jomo Kenyatta, and Kimathi University College), and was a member of the team that carried out an external audit of the quality assurance procedures at the Kigali Institute of Science and Technology (KIST) in 2009. He serves on the peer review committees of several publications. In addition to academics, Prof. Rading has also worked at the Kenya Bureau of Standards where he headed the Materials Testing Laboratories Department, and completed several consultancy jobs, the notable ones being a UNIDO project to develop a design and mechanical engineering unit at KIRDI as well as supervision of the fabrication of fuel tanks and product pipelines for Mobil Oil (K) Ltd. Prof. Rading is a registered engineer, a member of the American Welding Society, and the Institution of Engineers of Kenya. In 2008, he, together with a few other materials scientists and engineers founded the African Materials Science and Engineering Network (AMSEN) of which he is the Deputy Academic Director. The network brings together five universities in Kenya, South Africa, Namibia, Botswana and Nigeria, and aims at developing PhD level graduates in materials science and engineering.



PROF. THOITHI, NJERI GRACE

MKNAS/ 121/2004

PhD (KUL), M.Pharm. (KUL), B. Pharm. (UoN).

Prof. Thoithi is a professor of Pharmaceutical Chemistry and is a former Dean of the School of Pharmacy, University of Nairobi. Prof. Thoithi has also served as a consultant in regulatory and pharmaceutical services for national and international organizations such as Ministry of Health, Pharmacy and Poisons Board, Kenyatta National Hospital and the World Health Organization. She has also been a member of the Board of Management and Chair of the National Quality Control Laboratory; a member of the task force of the health research capacity strengthening initiative, a joint initiative of Wellcome Trust, Department of Foreign International Development (DFID), International Development Research Centre (IDRC); and a member of the interim executive committee for the creation of a national health research consortium. She is a representative of the East African Community Partner States in the African Medicines Regulatory Harmonization Advisory committee, a member of the E11 (R1) Expert Working Group of the ICH and an editor of the East and Central Africa Journal of Pharmaceutical Sciences. Her research interest is in the field of pharmaceutical analysis and phytochemistry, for which she has been a recipient of grants from various donors including International Foundation for Science, Sweden; Africa Career Awards, Rockefeller Foundation, U.S.A.; and the European Community. She has taught and supervised many Master of Pharmacy students as well as Doctor of Philosophy (Pharmacy) students. Grace has more than 40 articles in peer-reviewed journals.



PROF. ONYANGO, COLLINS JOHN

MKNAS/ 140/2007

PhD (UK), MSc. (UoN), B.Ed. (UoN).

Prof. Onyango was born in 1958 in Bondo, Siaya County. Prof. Onyango attended his primary education at Mbeka Primary School before proceeding to Onjiko High School for his East Africa Certificate of Education (EACE). He later joined Kericho High School for his EAACE. Prof. Onyango holds a Bachelor of Education (Science) and Master of Science (Botany, Plant Physiology) from University of Nairobi, and Doctorate of Philosophy in Plant Physiology from University of Sussex, United Kingdom. Prof. Onyango established University Botanic Garden in Maseno, as Research Infrastructure and Centre for Ethno-botanical Plant Conservation in the Tropics of self-sourced research funds from Federal Ministry of Education and Research [BMB+F], Germany. The garden is a centrepiece development for the university and compares to none in this region. It is a member of Botanic Gardens Conservation International with headquarters at the Royal Botanic Gardens, Kew, U.K. He subscribes to many professional

societies including Agricultural Society of Kenya, Crop Science Society of Kenya, and International Crop Science Society, among others.



PROF. ABDULRAZAK, A. SHAUKAT

FKNAS/149/2021

*PhD (Japan), Ph.D (UK), MSc. (UK),
PG Dip., (UK) Dip. AHU, (Egerton), EBS.*

Prof. Abdulrazak is the Director for Africa, Technical Cooperation Department at IAEA. He is the former Vice-Chancellor UMMA University, Kenya. Served as CEO, Kenya National Commission for Science, Technology and Innovation (NACOSTI) for 6 years. During his tenure he transformed the institution to be a vibrant one addressing areas of STI. He served as Deputy Vice-Chancellor (Research and Extension) Egerton University for 5 years. Abdulrazak served as the Chairman of African Technology Policy Studies (ATPS) Board. Abdulrazak served as a member of the National Economic Social Council (NESC), Kenya – advising the government of all matters related to STI, Chairman of Lamu-Port Southern Sudan-Ethiopia Transport Corridor (LAPSSET) Authority, Chair, Kenya Marine and Fisheries Research Institute Board (2005-2007) and Chairman, African Regional Cooperative Agreement for Research, Development and Training related to Nuclear Science and Technology (AFRA) from 2012 to 2013. Abdulrazak served in several other boards including; Kenya Meat Commission (KMC), Consortium for National Health Research (CNHR), National Museum of Kenya, Kenya Agriculture Research Institute (KARI), Kenya Medical Research Institute (KEMRI). Served as a member of the Inter-University Council of East Africa (IUCEA), Council member of UMMA University, Kenya, Commissioner of the African Commission on Nuclear Energy (AFCONE), a Governor of the International Centre for Genetic Engineering and Biotechnology (ICGEB) and Kenya representative at Biological and Toxins weapons convention (OPCW). While on these Boards, Abdulrazak has contributed immensely on how institutions should be run effectively and efficiently ensuring that they have smart key performance indicators and be able to deliver on their mandate. He represented Kenya in International bodies above and advocated for stronger collaboration and partnership with and outside Africa. He was decorated with the Moran of the Order of Burning Spear (MBS) by His Excellency the President of Kenya, in 2008 and included as a subject of biographical record in Marquis Who is Who in the world 2010 Edition due to his exemplary performance in his work. He taught at Egerton University 1997-2007 and full Professor since 2005, Kilifi Institute of Agriculture 1987-1996. He has supervised several postgraduate students both at the PhD and MSc levels. He was also an External Examiner at Makerere University between 2008 and 2010. Prof. Abdulrazak is a Fellow of The World Academy of Sciences (FTWAS), the African Academy of Sciences (FAAS), Japan Society for the Promotion of Sciences (FJSPS), Matsumae International Foundation (FMIF), and a member of the Chartered Biologists UK (CBiol) and Fellow of Society of Biology (FSB). He is also a Fellow of Kenya Institute of Management (FKIM), member of the Kenya National Academy of Sciences (MKNAS) and a member of the Harvard Kennedy School Executive Alumni, USA. He has published over 120 papers in

international journals, scientific conferences and symposia proceedings (see attached list of publication). He has also been presenting the Science and Technology field to stakeholders in a simplified way through a weekly column. He is also an Editorial Board member and reviewer of four International refereed journals. He has completed his Undergraduate studies at Egerton University, Kenya, his MSc and PhD at University of Aberdeen, UK and his Post Doctorate at Shimane University, Japan and Postgraduate Diploma in Innovation and Change from York St John University.



PROF. SEGOR, KIPTOON FRED

MKNAS/144/2007

BSc., MSc., PhD (UoN).

Prof. Segor was born on 1st December, 1966 in Baringo County, Kenya. After his early education at Tambach and Kakamega High School, he proceeded to the University of Nairobi (UoN) for his BSc. and MSc. and finally got Deutscher Akademischer Austauschdienst (DAAD) scholarship where he obtained PhD. degree in the same University. He joined Moi University in 1996 where he taught Chemistry & Biochemistry for both undergraduate and postgraduate programmes. Prof. Segor is *currently* the Principal Secretary (PS) in the Ministry of Agriculture, Livestock, Fisheries and Irrigation, State Department for Irrigation charged with responsibility for National Irrigation Policy and Management, Mapping, Designating and Development of Areas Ideal for Irrigation Schemes, Land Reclamation and Management of Irrigation Schemes through National Irrigation Board; Patron, Chemical Association of Moi University (CAMU) and the University of Eldoret; Deputy Patron, Baringo County University Students Association. Prior to his current appointment, Prof. Segor served as PS in the Ministry of Water and Irrigation, State Department for Water Services where he ensured the enactment of Water Act, 2016 in September, 2016. The Act has aligned the sector to the Constitution of Kenya, 2010 and also increased National water coverage from 56% to 60% (additional 4 million people); PS in the Ministry of Agriculture, Livestock and Fisheries, State Department for Livestock where he facilitated and advocated for formation of Strategic food reserve from the strategic grain reserve where he oversaw initial injection of Ksh 300 million out of required Ksh 2 billion into the dairy sector to address milk glut thereby stabilizing milk prices hence contributing to significant growth and improved livelihood of farmers. He was also the PS in the Ministry of Health; the Chairman of Chepkoilel University College, the Departmental Building Committee and the DAAD Scholars Association, Moi University Chapter. He has also been a member of Examinations Irregularity Investigating Committee, Implementation prioritization of schools/units Committee, School of Science Bachelor of Sports Science curriculum Committee and University of Eldoret building committee, Conference, Seminars and Workshop Committee, Moi University Academic Affairs Committee of the Senate; the Vice Chairman Kenya Chemical Society and Kenya DAAD Scholars Association, Moi University Chapter; and Trustee, Moi University Academic Staff Union.

Prof. Segor is a member of many national and international scientific societies including the Kenya Chemical Society, Kenya DAAD Scholars Association (KDSA) and Kenya National Academy of Sciences among others. Prof. Segor is an accomplished scholarly writer having published 15 scientific publications and 11 papers mainly in the field of Chemistry; took special interest in scientific and industrial policy particularly in Development of industrial dye-waste water treatment methods using electrocatalytic TiO₂/FTO electrode and biosorption; Phytochemical attractants and repellants from selected Kenyan varieties of mango (*Mangifera indica* L) as control tools for mango fruit fly Spp (Diptera: Tephritidae).



PROF. THIONG'O, KARANJA JOSEPH

MKNAS/146/2007

PhD (UMIST, UK), MSc. (UoN), B.Ed. (KU).

Prof. Thiong'o is an associate professor, Department of Chemistry, Kenyatta University where he has risen through various other positions before. Prof. Thiong'o in 1995 attained a PhD in Corrosion Science and Engineering, University of Manchester Institute of Science and Technology (UMIST) UK. In the year 1987 he attained a Master of Science in Chemistry, University of Nairobi and in 1981 Prof. Thiong'o attained a Bachelor of Education (Science), Kenyatta University College. He has a number of professional courses and awards and also has won fellowships among other accolades. He has published more than 78 papers in peer reviewed journals and has contributed to a number of book chapters in his area of interest. He has supervised students both nationally and internationally.



PROF. KADUKI, AMIGA KENNETH

MKNAS/151/2011

PhD (York, UK), MSc. (UoN), BSc. (UoN).

Prof. Kaduki is an Associate Professor, Department of Physics, University of Nairobi. He has specialized in laser spectroscopy and applications, image processing, multispectral imaging microscopy, microprocessor based instrument. He has been teaching physics and electronics to undergraduate and postgraduate students at the University of Nairobi since 1991. He has researched on disease diagnostics using spectroscopic and imaging techniques; trace gas monitoring using laser spectroscopic techniques; geothermal energy resource prospecting using laser spectroscopic techniques; design and development of general instrumentation systems; theoretical investigation of electronic and optical properties of low dimensional structures and devices. He was awarded AS-ICTP Fellowship. He is a member of Optical Society of America (OSA) and European Physical Society (EPS).



PROF. NGAIRA, W. KHAOMA JOSEPHINE

FKNAS/160/2011

PhD & MSc. (Moi University) B.Ed., (UoN), IGU, Sigma Xi.

Prof. Ngaira is a scholar, an educator, a researcher, a mentor, a consultant, and administrator of great repute. She is a Winner, Scientist of the year 2021, in physical Geography, Climatology (<https://achievementscenter.com/Josephine-Ngaira>). She who was born in Yalusi village, Bungoma County in 1960. Prof. Ngaira is a full Professor of Geography (Climatology) of Masinde Muliro University of Science and Technology. She earned a PhD in Geography (Climatology), in 1999 and MSc in Geography (Climatology) in 1993, both from Moi University, Kenya. She earned a B.Ed Arts, (Geography and Religion) from the University of Nairobi in 1983. Prof. Ngaira attended Mukumu Girls High School for both “O” and “A” Level education. She scored *Division 1* in East African Certificate of Education (EACE), scored *16 out of 19 points (grades B,B,B,4)* in EAACE in the year 1978. She has four (4) Professional Certificates. She is globally recognized as an expert and authority in Climatology, Climate Change, and Environmental Sciences. She was a panel speaker at the 22nd session of the UN Commission on science and Technology for Development in Geneva, Switzerland 2019 (<https://www.flickr.com/photos/53390373@N06/47065336304/>) and was an Expert Reviewer with the 5th IPCC Assessment Report. Prof. Ngaira rose through ranks from Tutorial Fellow (1993) to Full Professor in 2008. She has given twelve (12) invited keynote lectures on climate change, Water and environmental science both nationally and internationally: Teaching and Supervisions. Prof Ngaira has taught twenty three (23) Science courses in the University, She developed eleven STEM course; six Bachelors, three Masters and two PhD degree courses in Climate Change, Geography, Environmental Science and Disaster Management which are being taught in Kenyan Universities. Prof. Ngaira has supervised over twenty (20) postgraduate students, examined over forty research theses and projects. Before 1993, Prof. Ngaira taught Geography and Religion in various High Schools and Teacher Training colleges in Kenya between 1983 and 1992 including Mang’u National School, Kamiti high and Kaptumo high schools, then taught at Mosoriot TTC, Eregi TTCi and Moi Diploma Teacher Training College. She has been awarded so many awards for her research experience. She has published widely including; Three (3) University level text books, Five (5) Chapters in text books, Forty six (46) journal papers, Twelve (12) keynote published lectures and eight (8) online commentaries. She has presented over Forty (40) papers in both National and International conferences. Prof. Ngaira is affiliated to seventeen (17) Professional Bodies. The most outstanding and active ones include: Fellow, Kenya National Academy of Sciences (FNAS), Full Member, The Scientific Research Honor Society (Sigma Xi,) Member and Chairperson- International Geographic Union (IGU) Kenya Chapter, Member, International Center for Climate Change Adaptation and Development (ICCCAD) plus others. Prof Ngaira is serving as Hon. Treasurer, Kenya National Academy of Science and Chairperson, International Geographical Union (IGU) Kenya Chapter. She is the chairperson of Professors

forum at MMUST. She has served as Deputy Vice Chancellor, Academics and Student Affairs (MMUST) 2013-2018. Member of Maseno University Council, 2008-2011, Founding Director, School of Environment and Earth Sciences (Maseno University) 2004-2012, Chairperson, Department of Geography, 2001-2003, Chairperson, Board of Governors, Sang'alo Institute of Science and Technology, 2014-2017 Chief Editor, Maseno Journal of Education, Arts and Science (MJEAS), 1996-2006, Chairperson, Maseno University SACCO Society, 2001-2004, Member, Universities Joint Admissions Board (JAB), 2005-2012, Vice Chairperson, appointments and promotions Board Masinde Muliro University, Member, University Senate 2001 to date, Board Member, University Tender Committee, 2005-2011. Prof. Ngaira developed a total of fourteen academic related policies and strategies which have improved management of University Education in Kenya. Some include; Policy on Admitting female students to Kenyan Universities at 2 points lower than the cut-off points, which was implemented in 2010 to increase the number of female students joining universities, The Chaplaincy policy, Talent scholarship policy in force at MMUST, Examination Irregularity policy, Examination Resit and Retake policy, Conference Funding policies. Awards Received, Prof Ngaira has received twenty three (23) academic and professional awards in forms of Certificates, Cups, Plates and Emblems from both the National and International institutions.



PROF. SAKWA, W. THOMAS

MKNAS/164/2011

BSc. (Moi), MPhil, (Moi), DPhil (Moi).

Prof. Sakwa is a Professor of Physics at Masinde Muliro University of Science and Technology (MMUST), Department of Physics, Where he has risen through various positions at the same institution. Prof. Sakwa has more than 25 years of service as university academic staff and more than 17 years in university management positions. In the year 2019 he was the Acting registrar (Academics) at the MMUST. Prof. Sakwa has published more than 45 papers in peer reviewed Journals and has won various awards and fellowships. He has supervised both undergraduate and post-graduate students, nationally and internationally. Prof. Sakwa was part in the making of the biological sciences & HIV & AIDS integration module, 2007.



PROF. OBUDHO, A. ROBERT

MKNAS/061/1995

A.A.Sc. (Sunny Cobleskill), BSc. (Sunny-Albany, UoN), M.A. and PhD. (Rutgers University).

Prof. Obudho retired as a Professor of Urban and Regional Planning, University of Nairobi. Founding Editor of African Urban Quarterly Journal and African Urban and Regional Science Index. Formerly, he was

an Associate Professor in Geography, University of Nairobi, Kenya, 1994-2004; Senior Lecturer in Geography, University of Nairobi, Kenya, 1988-1994, Lecturer in Geography, University of Nairobi, Kenya, 1985- 1987; Associate Professor, State University of New York at Albany, U.S.A., 1985-1990; Assistant Professor, State University of New York at Albany 1982- 1985; Visiting Professor College Saint Rose and Vassar College Poughkeepsie, U.S.A, 1982 and 1984, respectively; Assistant Professor, Rutgers University, New Brunswick, U.S.A. 1979-1982; Instructor of Geography, Rutgers University of New Brunswick, U.S.A, 1970-1978; and Planning Analyst, Johnson & Johnson, world-wide 1968-1979. Professor Obudho's principal research includes the urbanization, urban and regional planning with particular emphasis to Africa. His articles and reviews have appeared in a number of international journals especially, *Regional Symbiosis*; *Regional Development Dialogue*; *Professional Geographer*; *Annals of the Association of American Geographers*; *African Studies Reviews*; *Urbanism, Regional Urban Studies*; *African Urban Studies*; *Cahier Etudes Africaine*; *Social. Indication Journal*; *GeoJournal*; and *Third World Planning Review*; among others. His major publications include, editor of and contributor of *Urbanization, National Development and Regional Planning in Africa* (1974); Co-author of *Periodic Markets, Urbanization and Regional Planning; A Case Study from Western Kenya* (1976); editor of and contributor to *The Computer and Africa; Problems, Prospects and Potentiality* (1977); editor of and contributor to *Development of Urban Systems in Africa* (1979) editor of and contributor to *Urbanization and Development Planning in Kenya* (1982); author of *Urbanization in Kenya: Towards a Bottom up Approach to Development Planning* (1983); compiler of *Demography, Urbanization and Spatial Planning in Kenya: A Bibliographical Survey* (1985); editor and contributor to *Slum and Squatter Settlement in Sub-Saharan African: Towards a planning. Strategy* (1988); Compiler of *Small Urban Centres in Africa: A Bibliographical Survey* (1995); editor of and contributor to contemporary issues in *Regional Development Policy: Perspectives from Eastern and Southern Africa* (1997) editor of and contributor to *Urbanization and Management of Kenya's Urban Centres in the 21st Century* (1999); editor of and contributor to issues in *Resource Management and Development in Kenya*; *Essays in Memory of Professor Simeon H. Ominde* (2000) and editor of contributor to *Kenya Coast Handbook; Culture, Resources and Development in the East African Littoral* (2000). Prof. Obudho holds an A.A.Sc. (Sunny Cobleskill); B.Sc. (Sunny-Albany); Postgraduate Diploma in Education (University of Nairobi); M.A. and Ph.D. (Rutgers University).



PROF. (ENG) MBECHE, ONYANGO OYUKO

MKNAS/ 098/2004

PhD [UoN], MSc. [New York], B.Eng. [N.Jersey].

Prof. Mbeche is a retired Professor of Civil Engineering at the University of Nairobi and has supervised various undergraduate and postgraduate projects. He specializes in Transportation and Planning. Prof. Mbeche is a Board Member nominated by Tertiary Institutions in

accordance with the provisions of the Kenya Roads Act. Prof. Mbeche is a Member of the American Society of Civil Engineers and American Society of Engineering Education. He had a Nobel peace prize bestowed on him by the International Panel on Climate Change (IPCC) in December, 2007. Prof. Mbeche has also written many research papers on matters touching on Land use, Planning, Transport Economics and Urban Planning. In his work experience, he has worked as a Project Coordinator, Team Leader, and Project Civil/Structural Engineer in various Government organizations.



PROF. OLIMA, H.A WASHINGTON

MKNAS/112/2004

PhD (Dortmund), M.A. & B.A (UoN).

Prof. Olima was born in Sakwa Bondo, Siaya County in 1960. After his early education at Gombe Primary School, Nyangoma Boys Secondary School and Kakamega High School, Prof. Olima proceeded to University of Nairobi where he obtained his B.A. in Land Economics (1984) and M.A in Housing Administration (1987) degrees. He finally proceeded to Dortmund University in Germany where he obtained Dr. Ing (Spatial Planning) degree in 1993. He joined the University of Nairobi in 1986 as a Tutorial Fellow in the Department of Land Development, Faculty of Architecture, Design and Development where he rose to the position of Associate Professor in the year 2004. Prof. Olima has over twenty (20) years of experience in administration and management, three (3) years as Chairman of Department of Land Development, a total of five (5) years as Dean of Faculty/School (Architecture, Design and Development/ Built Environment) at the University of Nairobi, about two (2) years as Deputy Principal in charge of Planning, Administration and Finance at Bondo University College, and over four (4) years as Deputy Vice Chancellor in charge of Planning, Administration and Finance at Jaramogi Oginga Odinga University of Science and Technology. In addition, he has over thirty (30) years of academic, research and consultancy experience with scholarly record demonstrated by publications in internationally peer reviewed journals, book chapters, and supervision of several Masters Students and six (6) PhD students to completion. He is a registered, licensed and practicing value. Prof. Olima is a member of many national and international scientific societies. He was the President of African Real Estate Society (AfRES). Member of DAAD Scholars Association, and of the Kenya National Academy of Sciences. Prof. Olima is a trained and widely experienced land economist, researcher, consultant and spatial planner with wide experience in issues relating to land policy, land taxation, urban land tenure, land management and administration, property valuation and appraisals, urban basic service provision, monitoring and evaluation of projects, training and human needs assessment, housing and urban economic studies, urban land use planning, and integrated strategic urban development planning. He has conducted, participated and guided research and consultancies in: Digital Topographical Mapping and the Preparation of Strategic Regional Development Plans for another of urban centres and counties.



PROF. MWENDWA, K. SUKI

MKNAS/132/2007

B.A. (UoN), MA (Cornell University), PhD (University of California).

Prof. Mwendwa is an Associate Professor in Design. She did her BA at the University of Nairobi in Design (1981), MA at Cornell University in Interior Design and Human Environment Relations, (1985), and her PhD Arch. at University of California, Berkeley, majoring in Social and Cultural Issues in the Built Environment (2000). Her work in terms of research and Industry has progressively looked at the relationship between People, Design and the Environment, the role of creativity and innovation, and the synergy of the sciences and arts to solve contextual everyday challenges. The review of this undertaking is documented in publications and projects with partners since 1986. Prof. Mwendwa, previously held the position of Deputy Principal in charge of Networks Partnerships and Linkages, (2010 – 2012) at the then Kenya Polytechnic University College, before she became the Deputy Vice Chancellor for Technology, Innovation and Partnerships, when it was renamed – Technical University of Kenya (TUK) in 2013 - the first Technical University in Kenya. Some of the responsibilities she has held, have been Chairman of Design Department – UoN (2001-2004) the founding Director of the School of the Arts and Design - UoN (2005 - 2008) and has also worked on a number of maiden boards between 2003 and 2009; Kenyatta International Conference Centre, Kenya Film Commission, Public Archive Advisory Council, Consultative Expert Group: Network of African Science to name a few. She has consulted in design, with Ministry of Livestock, Ministry of Water, Serena and Sarova Hotels, Museums of Kenya, University of Nairobi, Export and Promotion Council, and in education with Aga Khan – Faculty of Arts and Science, Kigali Institute of Science and Technology, among others. Dance is Prof Mwendwa's passion which begun at the tender age of 3 years and still practiced to date. She started with Ballet at nursery school, and added Jazz and Modern dance at University level. She began teaching in Ithaca Community Centre USA, and on returning she continued to teach and pioneer an African Contemporary dance form for another 25 years, while lecturing. From the age of 4 years she has performed on stage, and began teaching herself choreographing in form 2. Since then she has held shows and performed at French Cultural Centre, Braeburn Theatre and Go Down, and by invitation at International House California and Indian High Commission Kenya. She has extensive experience in dance and movement, Jazz – classical and Alvin Ailey, Modern Dance – Cunningham and Graham, Senegalese, Congolese – traditional and Contemporary, Afro Cuban and Indian Classical. For her pass time she enjoys Tai Chi, Qi Gong, Salsa and Zumba. She says, “Through dance I learn a lot about cultures and about myself”.



PROF. OTIENO, V. ALFRED

FKNAS/ 035/1996

B.A. & MSc. (Worcester College, Oxford) & PhD (Univeristy of California).

Prof. Otieno was born in Bondeni, Nakuru, at the height of the Second World War on 20th April, 1942. Prof. Otieno retired as a professor in of Electrical Engineering at the University of Nairobi. He was appointed lecturer in 1968 department of electrical engineering in the then Nairobi University College which was a constituent of the University of East Africa. On National development, he served as a member of the Board of Directors of the defunct Kenya External Telecommunications Company (KENEXTEL), and as a Member of the former East African Examination Council. He has also participated in the drafting of several important standards for the Kenya Bureau of Standards. Professionally, he is a registered Engineer (Kenya) and a partner in Westconsult among others. Prof. Otieno Main areas of interest include electromagnetic fields, microwave engineering and Telecommunications. Prof. Otieno attended Alliance High School before joining Oxford University where he received his B.A. Appointments (Eng.) Honors, and MSc. in Electrical Engineering. He also received a MSc. honours award in Electrical Engineering at the University of California at Berkeley. In 1973, he was awarded PhD in Electrical Engineering at the University of California - Berkeley. Prof. Otieno started University teaching as Assistant Lecturer in Electrical Engineering in the then University of East Afrlca, Nairobi University College in 1968. He joined the University of California as Research Assistant in Electrical Engineering in 1972 for one year. He joined the University of Nairob as Lecturer in the same Department in 1973. In 1975, he was promoted to Senior Lecturer in Department of Electrical Engineering. In 1976, he was appointed Chairman of the Department of Electrical Engineering, rising to the position of Dean of the Faculty in 1979. He was first appointed Associate Professor in 1980.



PROF. NGANGA, KINYURU JOHN

MKNAS/058/1995

BSc. (Geneva), MSc. (New York), PhD. (UoN).

Prof. Nganga recently retired as the thematic head, Physical and Environmental Meteorology, Department of Meteorology in the University of Nairobi. Previously, he was chairman of the Department of Meteorology and member of the University Senate. He is a member of Kenya National Academy of Sciences, Specialist Committee on Physical Sciences; Editorial Board, Kenya Journal of Science and Technology and Kenya Meteorological Society. Prof. Nganga holds a Bachelor of Science (Physics and Mathematics) from Geneva College, Masters of Science (Meterology) New York University, Certificate in Environmental Science from

Harvard University School of Public Health and Doctorate of Philosophy (Meteorology) from University of Nairobi. He has worked as a consultant in various institutions such as Pan African Union for science and Technology (PUST), NUFFIC-The Netherlands Organization for International Cooperation in Higher Education, WMO, USAID/FEWS-NET and Ministry of Development of Northern Region and Other Arid Lands.



PROF. OGOLA, J. SAMWEL

MKNAS/ 063/1995

Dip.Ed. (UoN), MSc., PhD (Moscow).

Prof. Ogola is a Professor of Economic Geology/Mining Geology. He has had long working experience of over 30 years at the tertiary level. He worked initially as a Tutorial Fellow at the People's University in Moscow (1980-1984) then at the University of Nairobi from the position of Lecturer to Associate Professor (1985-2000) and at University of Venda as Professor (2000-2012) and now as Professor Emeritus (from January 2013). His research work is quite broad, from mineral exploration focusing on gold-sulphide and fluorite mineralization to mining impacts with emphasis on tailings dams and waste rock dumps. He has also conducted some work on municipal and hospital solid wastes, looking at the dispersion and distribution of heavy metals from such wastes. From the 1990s to-date, he has been active in the area of climate change, hence the publication of a book "Potential Impacts of Climate Change in Kenya (1997)." He has to his credit over 40 publications in refereed journals, refereed conference proceedings and book chapters and has presented about 80 papers at national and international conferences. Since 2004, he has supervised and graduated over 100 honours, 13 masters and 2 Ph.Ds and he is currently supervising 4 master students and 2 Ph.D. candidates. He has had wide collaboration with professional colleagues from Wits University; University of Cape Town; St. Andrews University (Britain); Colorado School of Mines (USA); University of Goettingen, Technical University of Clausthal and University of Applied Sciences Ostwestfalen-Lippe (Germany) as well as Water Research Commission (WRC), Council for Scientific and Industrial Research (CSIR), Council for Geoscience (CGS), Pulles Howard & De Lange Pty (Johannesburg), Department of Minerals and Energy/ Mineral Resources. Most of the collaborations were based on national or international joint projects involving the training of postgraduates, for example, the Germany/South African Collaboration in Science and Technology Project with Prof. Dr. Eng. Klaus Maas (Hochshule Ostwesfalen-Lippe, Germany) where 5 German and 2 South African masters and Ph.D. had exchange programmes. Some of these collaborations are active to-date. Prof. Ogola has actively participated in academic leadership and development. At the University of Venda, he managed to set-up a new Department of Mining and Environmental Geology from 2000 and developed new programmes and qualifications at undergraduate and postgraduate levels (Masters and Ph.D.); developed new undergraduate course in Medical Geology (2001) and Mine Water Management (2003) at 2nd and 3rd levels; and developed Diploma in Mining Impacts and Post-Mining Rehabilitation (2001). He was Dean, School of Environmental

Sciences (2003-2012); Head of Department of Mining and Environmental Geology (2000-2003); Member of Senate and its Committees: Senate Executive Committee (SENEX), Academic Planning Committee (APC), Research and Publications Committee (RPC), Academic Affairs Management/Academic Division Committee; Senior Management Committee (SMC); Task Team on Restructuring, Quality Assurance Board; Chairperson, School Committees: Higher Degrees, Teaching and Learning, Research Equipment, and Quality Assurance and Promotion Committees. Currently, as Professor Emeritus, apart from postgraduate training and supervision, he is in charge of University Special Projects that include the development of 4 engineering programmes: Mining Engineering; Water and Environmental Engineering, Construction Technology Engineering and Agricultural Engineering as well as coordination of projects supported by the Construction Education & Training Authority (CETA) that include the development of a new degree programme: Bachelor of Engineering in Construction Technology, building of a new Laboratory/Workshop for the programme; and staff development.



PROF. ONDIEGE, P. OPIYO

MKNAS/065/2011

B.Ed. (UoN), M.Econ., PhD. (Tsukuba- Japan).

Prof. Ondiege is an independent Economist Consultant. He was formerly Chief Research Economist at the Development Research, Department of the African Development Bank where he was responsible for Investment Climate Assessment, African Competitiveness Reports and previously Associate Professor and Director of Housing, Department of Urban and Regional Planning, at the University of Nairobi (Kenya). Among his great work is a paper on Regulatory Impact on Mobile Money and Financial Inclusion in African Countries - Kenya, Nigeria, Tanzania and Uganda.



PROF. SYAGGA, P. MAURICE

MKNAS/ 067/1995

B.A., M.A., PhD. (UoN), MISK, FBIM, FEDI, MARES, MBIFM, MIFHP, MKIM.

Prof. Syagga was born on 1st April, 1947 in Ugenya Sub County, Siaya County. After his early education, he undertook his BA degree course in Land Economics at the University of Nairobi graduating in 1971. He acquired both his M.A and PhD in Land Economics from the same institution (University of Nairobi). He has served in the University under various capacities and currently he recently retired as a professor of Land Economics at the University of Nairobi. He also worked as Estates Surveyor in Martin Heymann and Co. Ltd, Tanzania from 1974-1975. Prof. Syagga is also the principal Consultant and Director at Syagga and Associates Ltd. He has published 3 books and several articles in journals and book chapters. Professor Syagga has successfully supervised numerous students at different academic

levels. He has also served the Kenyan government as Technical Advisor in Kenya National Land Policy Formation and in National Housing Policy Formulation. He was appointed as the president of African Real Estate from 2001-2003. He believes in commitment to the promotion of positive human development. Apart from the Academy Prof. Syagga is a Member of the Institution of Surveyors of Kenya (MISK); Member of the Kenya Institute of Management (MKIM); Fellow of the British Institute of Management (FBIM); Fellow of the Economic Development Institute (FEDI); Member of African Real Estate Society (MARES); Member, British Institute of Facilities Management (MBIFM) and Member, International Federation of Housing and Planning (MIFHP).



PROF. SIGOT, ASENATH

MKNAS/068/1996

BSc, MSc. (Missouri), PhD (KU).

Prof. Sigot is a Professor of Nutritional Sciences in the Department of Nutritional Sciences, School of Public Health, Biomedical Sciences & Technology (SPHB&T) at the Masinde Muliro University of Science and Technology (MMUST). She was Director School of Family, Consumer Sciences & Technology (Aug 1991 - Nov 2003). Senior Lecturer, Kenyatta University where he taught several courses in the department of Home Economics that include foods and nutrition and home management (Feb 1982 - Aug 1991). She is an ardent researcher who has published extensively in the field of Nutrition and Health besides carrying out top notch research. She once coveted a Fellowship program which propelled MMUST's research and academic profile into the foreground of the global research arena.



PROF. OKINDA, P. OWUOR

MKNAS/ 108/1995

MSc., PhD (Cleveland USA).

Prof. Okinda is a professor of Chemistry, Department of Chemistry, Maseno University. Prof. Okinda's research interests include; the quality production of black tea, understanding the chemical basis of Kenya tea quality and improving both cultural, agronomic and black tea processing technologies. He has successively been Chemist Principal Research Officer, Head of Chemistry, Principal Scientist, Senior Principal Research Officer, Head of Technical Services, and Deputy Director of the Department of Tea Research Foundation of Kenya (TRFK) before he became Professor in 2004 at the University of Maseno. Prof. Okinda has served in different institutions including: Director of the School of Graduate Studies in Charge of Administration, Director of International Relations and Interlink of Maseno University. He has been Chairman of the Department of Chemistry and Chairman Maseno University High Temperature and Foundry Project; member of the scientific advisory panel of the Board of

Directors of the Tea Research Institute of Tanzania (TRIT), and member of technical and scientific advisor of the Rwanda tea industry. He is a member of the American Chemical Society and several other professional societies. His first career started at the University of Nairobi after PhD. He has national, regional and international awards and recognition and also has 200 publications.

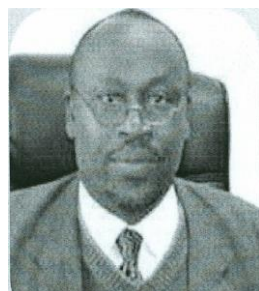


PROF. SHIUNDU, MWANZA PAUL

MKNAS/ 120/2004

PhD (British Columbia, Canada), CPGS (Cantab), BSc. (UoN).

Prof. Shiundu, Paul Mwanza was born on June 19, 1962 in Busia, Western Kenya. He obtained his East Africa Certificate Education (EACE) at Bukhalalire Secondary School before proceeding to Maseno School for his Kenya Advanced Certificate of Education (KACE) in 1981. The distinguished professor in Chemistry got his Certificate of postgraduate study in Natural Science in 1987 at Cambridge University (United Kingdom) after graduating with degree in Bachelor of Science from University of Nairobi in 1986, and later Doctor of Philosophy in Analytical Chemistry from University of British Columbia (Canada) in 1991. Prof. Shiundu has satisfactorily supervised projects at different levels in his field and risen through various academic and administrative ranks. He currently serves as a Professor Department of Chemical Sciences and Technology and the Deputy Vice Chancellor in charge of Academics, Research and Students (ARS) at the Technical University of Kenya. In addition, he is an Associate Professor at University of Nairobi's Department of Chemistry. He has won various grant awards including from VicRes in support of a research project entitled "Investigating the Factors Affecting Levels of Omega-3 Polyunsaturated Fatty Acids (PUFA) in Commercial Fish Species in Lake Victoria", courtesy of a joint collaboration among Department of Chemistry, University of Nairobi (Kenya); Department of Biochemistry, University of Nairobi; and Department of Fisheries Science and Aquaculture, University of Dar-Es-Salaam (Tanzania). Prof. Shiundu is a fellow at the Cambridge Commonwealth Society (London), member of American Chemical Society and the Kenya Chemical Society.



PROF. KAGWANJA, M. STANLEY

MKNAS/127/2007

B.Ed., MSc. (UoN), PhD. (Bristol).

Prof. Kagwanja is a Professor of Chemistry and Deputy Vice Chancellor in charge of Administration, Finance, Planning and Development at Chuka University, Kenya. Among his studies is a paper on New complexes derived from the reaction of $\text{Mo}(\text{NO})\text{Tp}^*\text{Cl}_2$; $\text{Tp}^* = \text{tris}(3,5-$

dimethylpyrazolyl) borate with a series of manganese(II) Schiff bases have been synthesized. Prof. Kagwaja has published more than 25 peer reviewed papers, and has supervised a large number of students in his field of study.



PROF. MARINGA, MAINA

MKNAS/ 130/2007

PhD (UK), MSc., BSc. [UoN], post gra.Dip. [University of Trondheim].

Prof. Maringa is a professor of Mechanical Engineering at the Technical University in Kenya, Faculty of Engineering and Built Environment, School of Mechanical and Mechatronic Engineering. His main specialization is Mechanical Engineering. He is a Material Scientists at Centre for Rapid Prototyping and Manufacturing (CRPM). Among his works Prof. Maringa did publications on Composite Materials Characterisation and Analytical modelling and generally has published more than 20 papers in peer-reviewed journals.



PROF. NDIEGE, OMOLO ISAIAH

MKNAS/133/2007

BSc. (UoN), PhD (Cantab.), PGDM (UMI), MKCS, FCCS (London), MNYAS (New York), MACS (Washington).

Prof. Ndiege is a Kenyan born in 1959. He is a professor of Chemistry and a researcher. Achievements include research in biodiversity and law; research in bioethics; research in bio-safety. Prof. Ndiege has served as the Vice Chancellor, Kyambogo University in Kampala, Uganda. Prof. Ndiege previously worked from the year 2007-2009: Professor of Organic Chemistry (Chemical Biology), Kenyatta University; 2008-2008: Visiting Professor, Department of Chemistry, Gulu University, Gulu, Uganda; 2007-2008: Visiting Professor, Department of Pharmacology & Therapeutics, Makerere University, Kampala, Uganda; 2003-2005: Dean, School of Pure and Applied Sciences, Kenyatta University; 2002-2007: Associate Professor of Organic Chemistry (Chemical Biology), Kenyatta University; 1996-2002: Senior Lecturer, Department of Chemistry, Kenyatta University; 1995-1996: Lecturer, Department of Chemistry, Kenyatta University; 1995-1995: Research Associate, Department of Chemistry, Simon Fraser University, Vancouver, Canada; 1993-1995: Senior Post-Doctoral Research Scientist, International Centre for Insect Physiology & Ecology (ICIPE), Nairobi, Kenya; 1989-1992: Post-Doctoral Research Scientist, ICIPE; 1985-1987: Management Trainee, Coates Brothers (E.A.) Ltd, Nairobi, Kenya; 1984-1984: Industrial Attachment in Quality Control Laboratory, Dawa Pharmaceuticals Ltd, Nairobi, Kenya; 1983-1983: Untrained Teacher, Kambare Secondary School, Gem, Kenya and 1981-1981: Untrained teacher, Ramba Secondary School, Rarirda, Kenya. He is a Member of Uganda National Examination Board (UNEB) and a member of the Rotary Club. He is a member of a number of professional bodies and

institutions. Prof. Ndiege has won a number of research grants, Honors and developed a wide variety of commercial products. He has supervised external examinations in Uganda, Kenya and internationally.



PROF. OCHIENG, OKOTH ALEXANDER

MKNAS/134/2011

PhD, MSc. BSc. & Dip., (Moscow).

Prof. Ochieng is working currently as a Professor of Chemistry, Department of Chemistry, Maseno University. He has been involved in number of invited lectures and has won international awards. He has supervised thesis both nationally and internationally. Prof. Ochieng has published more than 25 papers in peer-reviewed journals and has supervised examinations both nationally and internationally.



PROF. OKUMU, JOHN

MKNAS/136/2007

PhD (Leeds), MSc (KU), B.Ed (KU).

Prof. Okumu is a Professor of physics at Kenyatta University, Department of Physics. His recent work has focused on sputter deposition technique to thin films of transition metal oxides. The main goal is to have a better understanding of novel materials for device development. This involves the characterization of materials for various applications through the study of optical and structural properties using optical spectroscopy and x-ray diffraction analysis. The study of these materials has immediate applications in optical data storage, hard coatings and mirrors, and coatings for smart windows. Prof. Okumu has recently started a project on fabrication of nanoparticles especially by sputter deposition in transition metal oxides. We research on a method that can produce a broad plasmon resonance band which is suited for photochromic applications. We try to understand these properties using x-ray diffraction, transmission electron microscopy and optical spectroscopy. In this work we collaborate with the 1st Institute of Physics, RWTH-Aachen, Germany. He has risen through various administrative positions at Kenyatta University and even beyond. Prof. Okumu has published more than 26 papers in internationally refereed journals and has done a wide collection of articles in different conference proceedings. He has supervised students nationally and internationally. He is a member of many professional bodies. He has won a variety of grants, honours and fellowships among other accolades.



PROF. ONINDO, OTIENO CHARLES

MKNAS/138/2011

B.Ed. (UoN), MSc. (Kenya University), PhD (Leeds, UK).

Prof. Onindo was born on January 11, 1961. He pursued his secondary school education at Gendia Secondary School, Homa Bay County before proceeding to Menengai High School for his A-level education where he sat for KACE in 1980. He later joined University of Nairobi for Bachelor of Education (Science) in 1985, Kenya University for Master of Science (Chemistry), and Doctor of Philosophy in Chemistry at Leeds University, United Kingdom until 1995. His academic qualifications are coupled with the vast experience in trainings including Training of Academic Members of Staff on New Teaching Methods organized by the Centre for Teaching Excellence and Evaluation (Kenya University); Training on Root Cause Analysis (RCA) for Departmental Quality Teams held at BSSC (Kenya University) and Monitoring and Evaluation for quality assurance, Regional Centre for Capacity Development, Kenya University. Prof. Onindo has a rich background in research which has seen him author many publications with students both locally and internationally.



PROF. SIGUNGA, OWINO DALMAS

MKNAS/ 145/2007

PhD (WU Netherlands), Dip., (Canada), Dip., (Okayama University), MSc. (UoN), BSc. (Makerere University).

Prof. Sigunga is professor at the department of Soil Science, Maseno University, Kenya. He teaches both undergraduate and postgraduate students courses in Soil Science/Plant Nutrition, and related subjects. He has conducted research in such areas as Soil Fertility and Plant Nutrition; Plant nutrient dynamics in soils; Integrated Natural Resources Management in agricultural systems. He is a consultant in Natural resources inventory, management, and utilization; Soil degradation control and Plant nutrient use efficiency. Prof. Sigunga is a member of the World Association of Soil and Water Conservation (WASWC). Has published more than 20 papers in peer-reviewed journals.



PROF. KIEMA, K. BOSCO JOHN

MKNAS/ 152/2011

PhD (UoN), MSc. (UoN), BSc. (UoN).

Prof. Kiema was born in Nairobi County on 28th January 1968. After his early education in Parkroad and Jamhuri High School, he proceeded to the University of Nairobi where he did both his Bachelors and masters degrees in Surveying and Photogrammetry. He later did Postgraduate Diploma in Computer Science from the same institution (UoN), before furthering his studies at University of Karlsruhe in Germany where he graduated with Doctor of Engineering. Prof.

Kiema is the Director of Technical Services, Regional Centre for Mapping of Resources for Development (RCMRD). Before, he served as the Director of Remote Sensing, GIS and Mapping, RCMRD. He has worked in University of Nairobi in different capacities, i.e., as a senior Lecturer and Associate professor in the Department of Geospatial and Space Technology, lecturer and Assistant Lecturer in the Department of Surveying and finally a Tutorial Fellow. Prof. Kiema has published more than 25 peer-reviewed scholarly articles and co-authored reference book entitled “Environmental Geoinformatics: Monitoring and Management” published by Springer-Verlag, Germany (with about 60,000 Downloads). He has supervised and examined several PhD and Masters Students. He was once Executive Secretary of the Eastern Africa Land Administration Network (EALAN) that comprises of twelve member institution. He has served as a director in many organizations. Prof. Kiema is a God fearing person whose vision is to serve God by using all his talents and gifts for the benefit of others.



PROF. ENG. KIHU, M. JOHN

MKNAS/153/2011

PhD (UoN), MSc.(UoN), BSc.(UoN).

Prof. Kihiu was born in Kiambu, Kenya. Prof. Kihiu is a Professor of Mechanical Engineering in the department of Mechanical Engineering at Jomo Kenyatta University of Agriculture and Technology (JKUAT). Prof. Kihiu, is a Kenyan engineering educator. His achievements include research in geometric constants in plain cross-bored cylinders; expert in area of high pressure technology. He is an Alumni, University of Nairobi Department of Mechanical and Manufacturing Engineering. He is a Scholar, Japan International Cooperative Agency. His area of research is applied Mathematics. Has published more than 27 in reviewed articles.



PROF. OGOT, M. MADARA

MKNAS/154/2011

BSE (Princeton), PhD (Penn state), MBA (Rutgers), PhD (UoN).

Prof. Ogot is a professor of Mechanical Engineering, University of Nairobi and DVC, Research, Innovation and Enterprise. He has published widely in refereed journals and has mentored and supervised post-graduate students both in Mechanical Engineering (with a focus on stochastic design optimization, transportation and engineering education) and strategic management (with a focus on small and medium enterprises). Prof. Ogot was a faculty member in the Depts. of Mechanical Engineering at Rutgers University (1991-2003), the Pennsylvania State University (2003-2006), before returning to Kenya and joining the Dept. of Mech. and Manufacturing Engineering at the University of Nairobi in 2006. He has served as the Managing Director for University of Nairobi Enterprises and Services Ltd, (2006-2011),

Deputy Vice-Chancellor Academic Affairs at Maseno University (2011-2014), Director of Research University of Nairobi (2016-2019), and currently the Deputy Vice-Chancellor Research, Innovation and Enterprise, University of Nairobi (2018-date). Prof. Ogot has been active in the development of the Science, Technology and Innovation policy in Kenya including a member of the Taskforce for the alignment of the Higher Education, Science and Technology Sector bills to the new Constitution resulting in the Universities Act 2012, Technical, Industrial and Vocational Training Act, 2013, and the Science and Technology Act, 2013, the latter providing the legal framework for the establishment of the Kenya National Innovation Agency, the National Research Fund, and the National Commission for Science and Technology. More recently he was the team leader on a project that developed the Policy on Research Training and Innovation in Kenya (2015) on behalf of the Commission for University Education, member of the team that developed the Ten year Master Plan for Science and Technology Parks in Kenya (2017), under the Global Policy Accelerator programme, member of the team developing the National Innovation Policy Framework (2020). Prof. Ogot holds a BSE in Mechanical Engineering from Princeton University, PhD in Mechanical Engineering from Penn State University, MBA (Strategic Management) from Rutgers University and a PhD in Business Administration (Strategic Management) from the University of Nairobi.



PROF. MANGURO, AROT ONYANGO LAWRENCE

MKNAS/156/2011

PhD [UoN], MSc. [UoN], BSc. [UoN].

Prof. Manguro was born on 23rd Dec. 1958 in Homabay County, Kenya. He attended Lala primary school from 1966-1973 and Gendia High School for EACE from 1974-1977. In 1978, he joined St. Pauls Amukura High school for his EAACE where he studied Mathematics, Physics and Chemistry and finalized in 1979. He joined the University of Nairobi in 1980 for his degree in Bachelor of Science, Chemistry up to 1984. Prof. Manguro did both his Masters and PhD in Chemistry from the University of Nairobi. He did his post doctoral studies in the Technical university of Munich, Germany from 1997-1999. In the pursuit his profession, Prof. Manguro has attended many technical learning institutions, both locally and internationally. Prof. Manguro worked as a Production Chemist in Muhoroni Sugar Company from 1986 -1988 then joined Kenya Forestry Research Institute from 1988-1992 where he worked as Research Officer I. In 1996 he was employed as a lecturer in the University of Nairobi where he worked for three years before moving to Maseno University as a senior Lecturer in 2003. He is now a full professor in Maseno University. Prof. Manguro has mentored over 10 PhD Students and published over 100 publications in reputable Journals.



PROF. ENG. MUTUKU, NDISYA NGUMBAU RAPHAEL

MKNAS/159/2011

BSc. [UoN], MSc. [UoN], PhD [Colorado].

Prof. Eng Mutuku has over 38 years of lecturing and research experience (since joining the University of Nairobi in 1977 as a Lecturer), in civil engineering materials and structural engineering holding various capacities as Lecturer and Senior Lecturer from 1977 to 1992. At the Faculty of Engineering, University of Nairobi, he also was in charge of the Industrial, Research and Consultancy Unit for 10 years. In 1992, he was appointed an Associate Professor at the then Jomo Kenyatta University College of Agriculture and Technology (JKUCAT) and appointed Chairman of the Civil Engineering Department. Later he was elected Dean of the Faculty of Engineering rising to a Full Professor of Civil Engineering in 2012. From December 2014 to date, he was appointed a Professor of Civil Engineering in the Department of Building and Civil Engineering at TUM and appointed acting Dean of the Faculty of Engineering and Technology. From December 2016 to date, he was appointed Acting Deputy Vice Chancellor (Academic, Research and Extension). During his tenure at the various universities, he has mentored, taught and supervised numerous undergraduate and postgraduate (MSc, PhD) students and at the Pan African Institute of Innovation and Basic Sciences hosted at JKUAT since its inception. He specializes in structural engineering, engineering construction materials, and engineering construction project management. He has been an external examiner for undergraduate and postgraduate programmes in many universities within and outside Kenya.



PROF. ONYARI, MMARI JOHN

MKNAS/167/2015

PhD (Connecticut), MSc. (Connecticut), MSc (UoN) BSc. (UoN).

Prof. Onyari is currently an associate professor at the Department of Chemistry, University of Nairobi. He attained his PhD in Polymer Chemistry from University of Connecticut. He also holds a post doctorate in dental polymer resins and an MSc in Polymer Chemistry from University of Connecticut, MSc in Environmental Chemistry from the University of Nairobi and BSc in chemistry (honors) from the University of Nairobi. He joined the University of Nairobi as a Tutorial Fellow in the Department of Chemistry in 1989 and later joined the Kenya Medical Research Institute in 1998 as a Research Officer. Prof. Onyari is also serving as a board member of the Kenya Marine and Fisheries Research Institute. He has published more than 20 scientific papers and presented his works in many local, regional and international conferences. He has also supervised both PhD and MSC students.



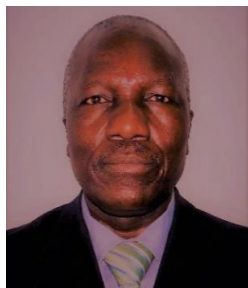
DR. ANDALA, M. DICKSON

MKNAS/168/2015

PhD (New York), MSc., BSc. (Kenyatta University).

Dr. Andala was born in Kakamega County in 1979. He grew up in Kakamega and attended school at Lurambi Primary School before joining

Mukumu Boys High School. Dr. Dickson Andala is a Senior Lecturer, Inorganic/Materials/NanoChemistry, Department of Chemistry, Faculty of Science and Technology at Multimedia University of Kenya. He received Education in BSc. 2002 (Chemistry/Biochemistry); MSc. 2005 (Inorganic Chemistry) both from Kenyatta University and PhD. 2010 (Nanotechnology/Materials/Inorganic Chemistry) from State University of New York at Binghamton USA. He undertook a Postdoctoral Fellowship at Pennsylvania State University in 2011. His research focus is in nanocomposite reinforced materials for water and air remediation; Biosensors and chemosensors, heterogeneous catalysis; functional materials. He published over 25 publications in peer reviewed journals and chapter contributions in books. He has supervised 5 PhD and over 14 MSc students. He reviews Research Grants Proposals for National Research Fund- in Kenya and South Africa; Kenyatta University; National Commission for Science Innovations and Innovation (NACOSTI -Kenya) and African Academy of Sciences (AESA). Dr. Andala is involved in policy development and capacity building in the area of Material Science and Nanotechnology. He is a member of Chemical Biological Radiological and Nuclear (CBRN) Steering committee and local expert as well as Chemical Safety and Security capacity building. He is Editor in Chief - Kenya Chemical Society. He holds membership to the following professional bodies: Eastern Africa Association for Radiation Protection, AAS - Affiliate 2016-2020, OPCW Associate 2015, IUPAC Affiliate Member, American Chemical Society, Royal Society of Chemistry, Kenya Academy of Sciences, Materials Research Society of Kenya, and African Materials Research Society. He is article reviewer for several chemistry and materials science including Elsevier.



PROF. LALAH, OWUOR JOSEPH

FKNAS/169/2015

PhD (UoN), MSc. (USA), BSc. (UoN).

Prof. Lalah was born on 30th December 1957 in Nyabeda Village, Ugunja Sub location, Uhoho Location, Siaya District. He attended Ugunja Primary School from 1967 to 1972 and Alliance High School from 1973 to 1978.

He joined the University of Nairobi in 1979 and obtained a BSc (honors) degree majoring in Chemistry and Biochemistry, in 1983. In 1984 he was admitted at Leeds University in the United Kingdom on a British Council scholarship, and graduated with a postgraduate Diploma in Fuel and Energy and an MSc in Combustion and Energy in 1986. In 1989, he enrolled for a PhD degree in Chemistry at the University of Nairobi and graduated in 1994. Prof. Lalah's first employment was with the Ministry of Energy, Nairobi, in 1983 but soon after his return from Leeds he moved to the Kenya Industrial Research and Development Institute (KIRDI) in 1989 where he was later appointed to head the Energy and Environment Division in 1994. He joined Maseno University in 1995 as a lecturer. During his employment as a lecturer at Maseno University, he took leave of absence from time to time for various postdoctoral research positions at the International Atomic Energy Agency - Marine Environment Laboratory in Monaco, the German National Research Centre for

Environment and Health in Munich, Germany, and the Centre of Ecology and Hydrology (Windermere) of the Natural Environment Research Council in the United Kingdom, before finally settling at Maseno University as a senior lecturer in environmental and inorganic chemistry. During the postdoctoral research appointments he acquired extensive research experience on environmental chemistry and ecotoxicology as evidenced in his publications. In 2010 he was appointed Associate Professor in the Kenya Polytechnic University College and Director in charge of Research and Postgraduate Studies. In 2013, he was appointed Director, School of Graduate and Advanced Studies, Technical University of Kenya, in charge of postgraduate, postdoctoral and advanced studies, a position he still currently serves in. In 2014, he was appointed a Full Professor of Chemistry in the Department of Chemical Science and Technology. His main area of lecturing is in inorganic/environmental/analytical chemistry and his research area is mainly in environmental chemistry and ecotoxicology. He has authored numerous publications which include articles in several refereed journals as well as book chapters. He has been a member of the Kenya Chemical Society, the Society of Environmental Toxicology and Chemistry (SETAC), Stop Poisoning Wildlife Taskforce (Wildlife Direct, Kenya), an alternate coordinator for the National Commission for Science Technology and Innovation (IAEA projects) and an affiliate member of the IUPAC (Crop Protection Committee) and the KNAS. Prof. Lalah has won several research grants and awards, including the National Research Fund (Kenya) and the prestigious Alexander von Humboldt Research Award in 2012 in recognition of his research work and capacity building. He has successfully mentored over 33 undergraduate, 19 Masters' and 7 Doctoral students through his exemplary research project supervision. He is married with four children.



DR. MAKAU, WAMBUA NICHOLAS

MKNAS/170/2015

PhD (Wits, South Africa), MSc., BSc. (Moi University).

Dr. Makau attended Kyambuko Primary School, Sigalagala Technical School and Kangundo High School. Subsequently, he joined Moi University where he studied both BSc (1992) and MSc (1997) degrees in physics. He joined the University of Witwatersrand in Johannesburg South Africa where he obtained his PhD in condensed matter physics, majoring in surface science. He joined Moi University as a Graduate Assistant rising through the ranks up to the position of senior lecturer. He is now a Senior Lecturer at the University of Eldoret. Dr. Makau has published more than 10 scientific papers and presented his works in many local, regional and international conferences. He has participated in the growth of physics in Kenya, where he is currently a member and editor of the Kenya Physics Society (PSK) journal and a regular associate of the International Centre for Theoretical Physics (ICTP) in Trieste, Italy in 2013. Dr. Makau's vision is to advance the study of Physics and its applications in society with special emphasis to Materials Science.



PROF. AMOLLO, ODHIAMBO GEORGE

MKNAS/183/2015

PhD (Wits, South Africa), MSc. (UoN), BSc. (Moi University).

Prof. Amollo was born in 1967 in Kisumu County then he moved to Nairobi. He had an early primary and secondary school education in Nairobi and attended Njoro High School for his A-levels later joining Moi University and University of Nairobi for BSc and MSc degrees respectively. For his PhD he proceeded to join University of the Witwatersrand, Johannesburg, South Africa. He is currently an Associate Professor at the Department of Physics, Technical University of Kenya. He has also worked at University of Eldoret as Associate Professor. He has a vast experience in both experimental and theoretical including areas such as computational modeling of materials for green energy utilization, non-linear optics as well as ion/laser – matter interactions, publishing numerous peer-viewed international journal articles as well as making presentations in local and international conferences. Prof. Amolo has a passion for the development of science, technology and innovation for the improvement of standards of living as part of the scientific corporate responsibility to society. In this regard he is a founder member of a scientific mentorship programme at University of Eldoret that is funded by the Emerging Nations Science Foundation of Trieste, Italy. He has also been involved in various initiatives to create a national physical sciences research laboratory to act as a support base for nurturing science, technology and innovation. Prof. Amolo remains active in local and international physics research activities being a Regular Associate of the Vice Chairman of the Physics Society of Kenya (PSK).



DR. NJOROGE, GEORGE FRANK

MKNAS/200/2015

PhD (Ohio), MSc. (Ohio), BSc. (UoN).

Dr. Njoroge was born in 1954. He was educated at Kamuchege and Kiawairia primary schools. Dr. Njoroge spent his high school days in the chemistry and biology laboratories of our own Thika High School. His star started shining at the University of Nairobi where he came top of his graduating class with a first class honors degree in Chemistry. His next stop was Case Western Reserve University, Cleveland, Ohio from where he graduated with a Master of Science degree in Chemistry in 1983 and a PhD in Organic Chemistry in 1985. Dr. Njoroge quickly got into the business of drug development. Between 1987 and 1991, as a Research Associate in the Institute of Pathology, Case Western Reserve University he established the relevance of the Maillard Reaction (browning) in complications associated with diabetes and aging processes: he established major agents involved in cross-linking of proteins in diabetic

and aging people which provided important bio-markers for evaluating disease progression. His tireless efforts started paying off thus, as a Principal Scientist and Senior Principal Scientist between 1991 and 2000; he was very successful in leading the way to the discovery of a farnesyl protein transferase inhibitor, SARASAR® for cancer indication which advanced all the way to Phase III clinical trials. Although studies for this compound were halted at an advanced stage, it is now being extensively investigated for treatment of Progeria, a rare disease that affects toddlers by accelerating their aging process. After the significant contribution in the cancer field, at Schering-Plough Research Institute New Jersey, in 2000, he was promoted to the position of Associate Director, Medicinal Chemistry and then as the Director, where he embarked on a journey to discover drugs that would treat the deadly hepatitis C disease. After years of intense scientific work, together with his group, they discovered Victrelis™, a very important medicine that treated this disease in a remarkable way. On May 13th 2011, Victrelis™ was approved by the Food and Drug Administration agency (FDA) as the first protease inhibitor to treat Hepatitis C disease. The medicine has been used to treat thousands of patients. He also discovered a follow-up medicine, Arlansa, a drug that is being used in Russia. Dr. Njoroge was inducted to the 'Hall of Fame' as 2012 Hero of Chemistry and awarded the Heroes of Chemistry Award by the American Chemical Society for the discovery of hepatitis C drug and named one of the '25 most influential Africans in America' by The Sun Times in 2012. He has received other numerous awards including Schering-Plough Research Institute's President; New Jersey Minority Achievers Award for Cutting Edge Research into Life Threatening; Schering-Plough Research Institute's President Award for the discovery of Hepatitis C drug; Emerald Award for Professional Achievement in Industry; Shining Performance Award; Thomas Alva Edison Patent Award for US patent number 7,012,066. In 2014, Dr. Njoroge was awarded Honorary Doctor of Pharmaceutical Science degree by Mount Kenya University for his exemplary work in drug discovery. Dr. Njoroge has published 134 scientific publications and 104 granted US patents. In July 2018, Dr. Njoroge was honored with Face List Award by Face-to-Face Africa organization in New York for his ground-breaking discoveries as scientist. Dr. Njoroge is the Founder of Centre of Africa's Life Sciences (C.O.A.L.S), a premier institution that is being established in Naivasha, Kenya with the primary goal of searching and developing novel medicines in the continent of Africa.

DR. KILUVA, MWIKALI VERONICA

MKNAS/201/2015



PhD (MMUST), MSc. (MMUST), BSc.(JKUAT).

Dr. Kiluva was born in Machakos County, Kenya in 1971. After her early education at Precious Blood Secondary School, Kilungu, Dr. Kiluva proceeded to Jomo Kenyatta University of Agriculture and Technology (JKUAT) where she obtained her B.Sc. degree in Agricultural Engineering and finally to Masinde Muliro University of Science and Technology (MMUST) where she obtained her M.Sc. and PhD. Degrees in Disaster Preparedness and

Engineering Management. She joined Trikha Girls Secondary School in January 1997, where she taught agriculture, biology, mathematics and physics before joining Bukura Agricultural College in October 1997 where she taught Rural Water Supply Systems and Sources. Dr. Kiluva then joined MMUST in 2007 where she taught process and systems safety engineering, simulation and modeling in disaster preparedness, environmental modeling, flood forecasting and control, climatological aspects of disaster management and ICT applications in disaster preparedness. She is the Coordinator, Disaster Information and Response Unit (DIRU) and a patron of the Disasters and Environmental Management Association (DEMA) in MMUST. Dr. Kiluva is a member of many national and international professional associations, research groups and societies. She is a life member of the Kenya Meteorological Society (KMS), a life member of the Association of Disaster Management and Conflict Resolution of Kenya (ADMCRK), a member of the Nile Basin Capacity Building Network for River Engineering (NBCBN - RE), a member of the Water Capacity Building Network (Water Cap), a member of the Lower Isiukhu Catchment Area Resources Users Association (LICARUA) and a Registered Graduate Engineer by the Registration of Engineers Board of Kenya. Dr. Kiluva has published 12 scientific papers and books mainly in the field of disaster preparedness and engineering management, and more specifically in the area of water resources engineering and disaster management. Since 1997, she has endeavored to conduct research activities utilizing both qualitative and quantitative methodologies and has shown particular interest in advancing hazard and disaster management applications of remote sensing (RS) and geographic information systems (GIS). At the beginning of her career, she became an authority in flood and drought hazard modeling and early warning. She is instrumental in authoring the fundamentals of disaster management and humanitarian assistance text book. She is particularly interested in unearthing the dynamics of environmental and social change brought about by the impacts of natural and non-natural hazards on the scale of the entire society down to the level of individual inhabitants of ecosystems.



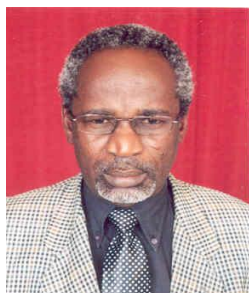
PROF. WANJALA, NYONGESA FRANCIS

MKNAS/216/2022

BSc. (UoN), MSc. (UoN), PhD (UoN).

Prof. Wanjala holds a PhD in Physics and he is currently serving as the academic Chair of the Department of Physics of the University of Nairobi. He obtained his PhD in Physics (UoN) in 2000. Prof. Francis Nyongesa is an accomplished scholar with proven track record in research and training as demonstrated by his publications in peer review journals and supervision and mentorship of postgraduate student. He has over 22 research publications in Material Science and Renewable Energy in refereed journals and over 15 oral presentations in international conferences in the following countries: United States of America (USA), Japan, Germany, Italy, China, South Africa, Ghana, Ethiopia, Uganda and Tanzania. He has supervision and mentorship many postgraduate students. His research interest include: Functional Materials

for Energy Efficient Systems, Solar Energy Materials (Perovskite Solar Cells, Dye Sensitized Solar Cells (DSSCs), and applications of Nanotechnology for Water Purification Systems. He is a recipient of the Third World Academy of Science (TWAS) Award for Young Scientist in 2007 for his contribution in scientific publications in Physics and several fellowships and research grants including: The PASET-RSIF Research Grants Award for PhD Program in 2020, the PASET-RSIF Capacity Building Grants Award in 2020, the National Science, Technology & Innovation (ST&I) Research grant (NACOSTI) in 2012, the U.S-Africa Materials Institute (USAMI) visiting fellowship at Princeton University (USA) in 2008 and the Abdus Salam Young Student Fellowship (Trieste, Italy) in 1999. He is among the founder members of the Global Young Scientists Academy (GYSA). He is a member of African Materials Research Society (AMRS) and the Ultrasonic Nondestructive Testing (NDT) Society of Kenya among others. He has served on the editorial board of the African Journal of Physical Sciences (AJPS) and the Tanzania Journal of Science.



PROF. OTHIENO, OTIENO HERICK

MKNAS/219/2022

BSc. (Kharkov State, Ukraine), MSc. (UK), PhD (UK).

Prof. Othieno was born in 1949 in South Nyanza and attended Koderobara Primary School in Rongo Division before proceeding to Alliance High School, Kikuyu in 1965. He later attended Kharkov State University in the Ukraine and the University of Strathclyde in UK where he respectively obtained MSc and PhD degrees in Physics. He joined Kenyatta University in 1977 where he taught various physics courses. He was instrumental in the Development of the Appropriate Technology Centre and became its Founder Director from 1983. This Centre eventually evolved into the School of Engineering and Technology at Kenyatta University. In 1984, Prof. Othieno was awarded a Fulbright Fellowship to conduct research at the Department of Mechanical and Space Engineering at North Carolina State University, USA. He became a member of the Institute of Physics (1987) and of the Institute of Energy (1991). In 1998, he was appointed a regular associate of the International Centre for Theoretical Physics in Trieste, Italy and later (2003) became a Senior Associate of the Centre. This appointment gave him the opportunity to visit the Centre every year to not only conduct research but also to enable his graduate students to also conduct part of their research at the Centre . In 2005, he spent a year at the University of Technology of Papua New Guinea as a visiting Professor and was able to complete the publications of two books: “Fundamentals of University Physics” and “Energy Resources in East Africa”. In 2014 he won a Commonwealth Fellowship as a visiting Professor at the University of Ibadan, Nigeria. A year later in 2015, the Institute for Geoscience Research (TIGeR) gave him financial support to spend part of 2015 at Curtin University in Australia where he completed another book on “Energy Resources in Africa”. Prof. Othieno received international recognition as a result of his research activities mainly in the area of Renewable Energy Technologies from which he has published several articles and books. Some of his professional activities

involved provision of services to the community both locally and internationally. He has stood out as an energy expert in Africa and has been instrumental in the formulation of African Energy scenario for the International Council of Science Unions, Regional Office for Africa (ICSU, ROA) and was one of the lead experts for the establishment of Pan African University's Institute of Water and Energy (PAUWES) in Tlemcen, Algeria. He has been a Renewable Energy Consultant for many international development Agencies and has travelled to/visited all the continents (Africa, Asia, Europe, South and North America) to participate in energy technologies and related issues. Nationally, he has facilitated the establishment of several small scale facilities for communities. An example of these is the establishment of small scale solar energy generating hubs for communities living along the shores and islands of Lake Victoria particularly in Mageta and Kiwa islands in collaboration with Renewable World of UK. Prof. Othieno is currently a professor of Physics in the Department of Physics and Materials Science at Maseno University, Kenya.



DR. AIRO, MILDRED AWUOR

MKNAS/223/2022

BSc. (Egerton University), MSc., PhD (Wits, South Africa).

Dr. Airo was born to parents who are originally from Alego, Siaya. She obtained her basic education from Maseno Mixed Pri. School and later proceeded to St. Barnabas Girls High school in Kombewa, Kisumu. She later obtained her BSc. from Egerton University, Njoro (in 2011) after which she joined University of the Witwatersrand for MSc. and PhD in Chemistry (2017). She has been a postdoctoral fellow at the schools of Chemistry both in University of the Witwatersrand (2017-2020) and Vaal university of Technology (2020-2021). She is currently undertaking postdoctoral fellowship at the Institute of Nanotechnology and Water and Sustainability at the University of South Africa under the South Africa National Research Fund for Scarce Skills Postdoctoral Fellowship. Her research interests include: [1] Synthesis, functionalization and characterization of metal and lanthanide doped metal chalcogenide nanomaterials (Material science); [2] Fabrication and characterization of solar cell devices (Renewable energy) including; (a) enhancing the conversion efficiency via spectral modification on the anode using the lanthanide doped metal chalcogenides, (b) replacement of the rare and expensive platinum with cheap and abundant metal chalcogenide semiconductor nanomaterials as counter electrode in dye sensitized solar cells, and (c) interfacial engineering of the hole transport layer in bulk heterojunction organic solar cells with the aim of replacing the conventional PEDOT:PSS with metal chalcogenide nanomaterials; [3] Fabrication and characterization of chemical sensors for environmental monitoring of different pollutants including those found in water. These research projects have resulted in about 22 publications from peer reviewed international journals with about 148 citations. Dr. Airo has been a visiting researcher at Fredrick Alexander University, Erlangen, Germany, through TWAS-DFG visiting researcher fellowship grant: Visiting Prof. Peter Wasserscheid's lab in chemical engineering department. The research conducted

involved hydrogen storage in ionic liquid and use of ionic liquid in carbon dioxide capture. Similarly, she was a visiting researcher at the Federal University of Parana, Brazil through the OWSD research visit/conference support fund: Visiting Prof. Ivo A. Hümmelgen's lab and conducted research on chemical sensor application of colloidal semiconductor nanocrystals. She is currently a member of the South African chemical institute, an alumnus for the Lindau Nobel Laureate meeting (2017), a member of the Organization for Women in Science in developing world, a fellow for the fellow of the Bert L. and N. Kuggie Vallee foundation, Royal Society of Chemistry member and now a member of Kenya National Academy of Science.



PROF. ALUOCH, OCHIENG AUSTIN

MKNAS/226/2022

BSc. (UoN), MSc. (UoN), PhD (New York).

Prof. Aluoch was born in Nairobi in 1971. He joined Catholic Parochial Primary School in 1978 and proceeded to Nairobi School for his secondary school education in 1986. He then joined the University of Nairobi where he obtained his Bachelor of Science degree (First Class Honors) in 1995 and his Master of Science in 2000. He then proceeded to the USA for his PhD studies at the State University of New York at Binghamton (Binghamton University) where he obtained a Doctorate in Analytical Chemistry. Thereafter, he returned to Kenya where he was employed at the University of Nairobi, Department of Chemistry as a Lecturer in 2007. In 2011 he moved to the Technical University of Kenya (TU-K) to become the Chairman of the Department of Chemical Science and Technology (DCST). He is currently a professor of Chemistry in the School of Chemistry and Material Science (SCMS) formerly DCST. Prof. Aluoch's research interest is in analytical chemistry, biosensor development, electrochemistry and chemical security. He has attracted several research/training grants through which CCTV and biometric access control were installed at SCMS to improve chemical security. He is the author of several peer-reviewed publications in the fields of biosensors, analytical chemistry, chemical security, biosecurity and has mentored over 10 postgraduate students at both Master and PhD level. As a chemical security expert, Prof. Aluoch has implemented several chemical security projects and Chemical Biological Radiological and Nuclear (CBRN) in the framework of the Chemical Security Program and the European Union CBRN Risk Mitigation Centers of Excellence (EU CBRN CoE) respectively. He is an Associate of the Organization for the Prohibition of Chemical Weapons (OPCW), a member of the OPCW's Advisory Board on Education and Outreach (ABEO), an International Union of Pure and Applied Chemistry (IUPAC) Associate, an IUPAC STP Fellow and the current National Secretary of the Kenya Chemical Society (KCS). He is a former Chairman of the National Biological Weapons and Toxins Committee (NBTWC) which is Kenya's focal point at the United Nation's Biological Weapons Committee (BWC) and has been part of the Kenyan delegation to the UN BWC Intercessional Process in Geneva.



DR. OTIENO, GEOFFREY

MKNAS/ 227/2022

BSc. (Kenyatta University), M.Eng,(South Korea), PhD (UK).

Dr. Otieno was born in Siaya District currently Siaya County in 1981. He attended Lenana School, Nairobi for his secondary school education, thereafter, Dr. Otieno proceeded to Kenyatta University for his BSc Degree in Chemistry and Mathematics. He then joined Kangwon National University (South Korea) in 2005 for a Master of Engineering Degree in Advanced Materials, and finally to University of Oxford in the UK in 2007 for a Doctor of Philosophy in Materials Science. He joined the Technical University of Kenya after a post doc. position at Oxford in 2013 where he has been teaching and carrying out research on Nanomaterials, Nanochemistry and Nanotechnology. He has been a member of the Governing Council of Kenya Chemical Society (KCS) since 2015 where he also serves as the Treasurer. In 2017, he became an associate of the Organization of the Prohibition of Chemical Weapons (OPCW) which implements the Chemical Weapons Convention based at the Hague, Netherlands. He is part of the leading team spearheading Chemical Safety and Security efforts in Kenya and Africa. He is a point of contact for the US Department of State, Chemical Security Program in Kenya. Specifically, he is an expert in Chemical Management Systems (CMS). He has been involved in training industry, academia and the general public in Kenya, Somalia, Nigeria, Libya, Egypt, Malaysia, Indonesia etc. on Chemical Security and dual-use chemicals. Dr. Otieno is currently the Director of the School of Chemistry and Material Science at the Technical University of Kenya where he previously served as Chairman of Department since 2018. Dr. Otieno has a world patent, a book chapter and 8 peer reviewed scientific papers. His interest is in the application of nanomaterials in water treatment, disease treatment and electronics. He has also been involved in policies such as the domestication of Minamata Convention, and the Chemical management draft bill.



PROF. MUSEMBI, J. ROBINSON

MKNAS/228/2022

BSc. (UoN), MSc. (UoN), PhD (UoN).

Prof. Musembi is an associate professor of Condensed Matter Physics at the Department of Physics, University of Nairobi. His research interest is in thin films and thin film devices (solar cells, solar thermal absorbers, gas sensors and optical thin films application), computational method and proficient in programming techniques using C++, Python and Microsoft Excel VBA. Prof Musembi graduated with a PhD at the University of Nairobi in 2009, he has been a postdoc at Angstrom Laboratory, Uppsala University, Sweden and Roorkee, Uttarakhand, India. He has published widely and has several articles in both refereed journals and conference

proceedings. He has also been to many scientific meetings where his work been presented as well as participated in organising scientific events. He has also contributed as a reviewer for several scientific journals. Prof. Musembi is a member of several professional associations which includes: Kenya Physical Society (KPS), Materials Science and Solar Energy Network for Eastern and Southern Africa (MSSEESA), European Physical Society (EPS), ANSOLE, Kenya National Young Academy of Sciences and African Material Research Society (AMRS)-Kenya.



DR. MUHANJI, IMBOSA CLARE

MKNAS/229/2022

BSc. (UoN), MSc. (Botswana), PhD (Cape Town, South Africa).

Dr. Muhanji was born in Kakamega County and educated in Nakuru County. After completing secondary education, she joined the University of Nairobi and obtained a BSc degree. Thereafter she joined the University of Botswana in Botswana to pursue an MSc degree in Natural Products Chemistry. Her Masters studies was sponsored by the German Academic Exchange Services (DAAD). In 2002, she successfully acquired the Third World Organisation for Women in Science (TWOWS) Postgraduate Fellowship and enrolled at the University of Cape Town to study a PhD degree in Organic Synthesis. She joined the synthetic research group headed by Professor Roger Hunter. She graduated with a PhD in Chemistry in 2006. She joined Moi University in 2007 where she taught Organic Chemistry courses for 6 years. She successfully supervised and graduated six masters' students from Moi University. In 2013, she joined the Department of Chemical Science and Technology at the Technical University of Kenya as senior lecturer. She is currently the Academic Team Leader and Head of the Department of Pharmaceutical and Medicinal Chemistry. Dr Clare Muhanji has won a number of local and international grants. She is a member of the Kenya Chemical Society (KCS), the Organization for Women in Science (OWSD and the Kenya National Academy of Science (MKNAS). Dr Clare Muhanji has published her work in peer reviewed journals. Her research area involves the design, synthesis and biological activity of novel bifunctional compounds that target HIV reverse-transcriptase enzyme. She is also involved in the design and synthesis of compounds that target the nucleocapsid protein of HIV, a novel drug target.



DR. AMUHAYA, KHAVWAJIRA EDITH

MKNAS/230/2022

BSc. (UoN), PhD (Louisiana, USA), PostDoc (Rhodes, South Africa).

Dr. Amuhaya was born in Nairobi in 1980. After her high school education at Pangani Girls School, Dr. Amuhaya proceeded to the University of Nairobi, and finally to Louisiana State University where she obtained her BSc. Chemistry (First class Honors) and PhD in organic synthesis,

respectively. She joined Maseno University as a Lecturer in 2011 where she taught organic chemistry for 2 years before proceeding for a one year Post-doctoral fellowship at Rhodes University, in South Africa, under the mentorship of Prof. Tebello Nyokong. Upon her return to Kenya, Dr. Amuhaya joined the Technical University of Kenya as a Lecturer where she taught organic chemistry courses for 2 years. She later joined United States International University – Africa as a Senior Lecturer in the School of Pharmacy and Health Sciences, where she currently is. She is a member of the Kenya Chemical Society. Dr. Amuhaya’s research focuses on synthesis of porphyrins and related macrocycles, with applications ranging from Photodynamic Therapy (PDT) in cancer therapy, to Photodynamic Antimicrobial Chemotherapy (PACT), to potential use in Non-linear optical limiting devices. To facilitate her research activities, Dr. Amuhaya has attracted research grants from major funding agencies, including National Research Fund (NRF), International Development Research Center (IDRC) and Kenya Education Network (KENET). She also has established strong research ties with researchers in South Africa, Canada, the United Kingdom and the United States of America. Other than research, Dr. Amuhaya has been involved in program review and development at the universities she has worked. She has also been involved in chemical safety and security training and awareness campaign in the country. To date, Dr. Amuhaya has published 20 scientific papers and one book chapter. She continues to actively carry out research activities and supervision of both post graduate and undergraduate students.

PART 4:

POSTHUMOUS RECOGNITION

4.1 FELLOWS

1. Prof. Thomas R. Odhiambo, B.A., M.A., Ph.D. (Cantab.), FTWAS, FAAS, FANS, FPAS, FINSA, FKNAS/001/1986.
2. Prof. Samson Gombe, B.Sc. Vetmed (London) M.R.C.V.S. (UK), PhD, (Cornell), FTWAS, FAAS, FKNAS/004/1986.
3. Prof. Festo Abby Mutere, B.Sc. (Hons), Ph.D., Dip.Ed. (E.A.), FKNAS/012/[1986].
4. Prof. Simeon Hongo Ominde, M.A. (Aberdeen), Ph.D. (London), Dip.Ed. (E.A. & Edin.), FRGS, FKNAS/013/1986.
5. Prof. Gerald Munene Mugeru, Dip.Vet.Sc. (E.A.), M.Sc., Ph.D. (Michigan), FKNAS/011/1986.
6. Prof. Leonard H. Otieno, B.Sc (Addis Ababa), D.A.P.E, Ph.D (Lon), FKNAS/074/ 1994.
7. Prof. Joshua Wandera, BVM, MSc (Makerere), PhD (Michigan), FKNAS/077/1998.
8. Prof. Hastings Okoth-Ogendo, LL.B(E.A), B.LL (OXON), JSD(YALE), FWAAS (KENYA) FKNAS/075/1998.
9. Prof. Ambrose Wasuna, MBChB, (E.A), MD (NRB), FCS (Edin & Eng) FACS, FKNAS/015/1996.
10. Prof. Gideon S. Were, BA, PhD, FKNAS/078/1998.
11. Prof. Edward George Kasili, MB. CHb. (E.A) MD (Nairobi) F.R.C, FKNAS/005/1986
12. Prof. Frederick Onyango, Fil.Kand/M.Sc. [Uppsala], Ph.D [Lon], FKNAS/034/1986.
13. Prof. Nimrod Bwibo, MPH(USA), MCH(USA), FKNAS/021/1986.
14. Prof. Felix M. Luti, B.A.Sc (1968), Ph.D. (1972) Waterloo, FIEK, P. Eng., FKNAS/023/1986.
15. Prof. Benjamin Kipkorir, B.A. (Lond.), Ph.D. (Cantab.), FKNAS/007/1986.
16. Prof. John Kokwaro, B.Sc., (Addis Ababa), M.Sc., Ph.D. (Uppsala), FLS, FKNAS/008/1986.

17. Prof. John Samuel Mbiti, PhD (Cambridge University), MSc. & BA (London University), FKNAS/181/2015.
18. Prof. Nyambok O. Isaac, Fil. Kand. (Uppsala), MSc. (UoN), Fil. Dr. (Uppsala), FKNAS/060/1995.
19. Prof. Okong’o Owino, B.A. (Brandeis), M.A. (Antioc-Putney), M.A. (Boston), Ph.D (Vermont), C.Biol, M.I.Biol, MKNAS (1994), FKNAS/053/2011.
20. Prof. Laban Ogallo Ayieko, B.Sc., MSc., Ph.D. (Nbi), MKNAS (1995), FKNAS/062/2011.
21. Prof. Dominic W. Makawiti, B.Sc., MSc. (Nbi), Ph.D. (London), C.Biol., M.I.Biol. (UK), MKNAS (1994), FKNAS/041/2011.
22. Prof. Charles O. Okidi; B.A (Alaska), M.A., MALD., Ph.D (Fletcher), FKNAS/050/1995.
23. Prof. Jeremiah K. Musuva, BSc (UoN), D.I.C., MSc., PhD (Lon), R. Eng., M.IEK, FKNAS/028/1986

4.2 MEMBERS

1. Prof. Henry O. Oruka, BSc., MSc. (Sweden), PhD (USA), MKNAS 076/1984.
2. Dr. Charles Owinoh Gerroh, BSc., MSc. PhD (UoN), MKNAS/126/2007.
3. Dr. Godfrey Alati Olukoye, Ph.D. [K.U] Cert. [MDU & Moi University], MKNAS/037/2007.
4. Prof. Samuel G. Kibicho, B.A., M.Div. (Louisville) Ph.D (Vanderbilt), MKNAS/017/1984.
5. Prof. William R. Ochieng, Maseno University, MKNAS/018/1984.
6. Prof. Samson L. Meme MB.Ch.B, M.Med (Nbi), FAAP, Cert. Med. Anthro (Harvard), MKNAS/042/1994.
7. Prof. Tarcisius Aquiline Ngatia, PhD [UoN], Dip. P.V.M [Copenhagen], MSc [Colorado], [UoN] MKNAS/102/2004.
8. Prof. Emmanuel W. Omolo, BSc [UoN], MSc [London], Ph.D. [Cambridge], MKNAS/165/2011
9. Prof. Richard W. Mwangi, B.Sc., (Nbi), Ph.D. (Hull), MKNAS/045/1994.
10. Dr. Miaron Jacob O. Olongida, Ph.D., MSc. [Alberta] DVM. [Wroclaw, Poland], MKNAS,113,2004.
11. Prof. Okombo Okoth, B.A., M.A., Ph.D (Nbi), MKNAS/051/1994.
12. Prof. Geoffrey N. Kamau, B.Sc (UoN), Ph.D, (Connecticut), MKNAS /038/1994.
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16. Prof. Chris L. Wanjala, B.A., Ph.D. (UoN), MKNAS/020/1984.
17. Prof. John Okoth Owino, Ph.D, MSc. BSc. [UoN], MKNAS/116/2004.
18. Prof. Zakayo A. Mugendo, BSc, MSc, PhD (UoN), MKNAS/131/2007.
19. Prof. Phillip Mugambi, BSc, MSc, BSc. (UoN), MKNAS/025/1986.

20. Prof. Aloys Tumbo-Oeri, BSc (Nbi), Ph.D (N.S Wales), MKNAS/055 /1995.
21. Prof. Norah Olembo, BSc., MSc., Ph.D. (Nbi), MKNAS/036/1994.
22. Dr. Shem Arungu-Olende, *Ph.D (Eng) [London], BES [Ontario], BSc. [Makerere]*, MKNAS/111 /2004.
23. Prof. Cleophas C. Barasa Wangila, PhD (University of Minatoba, Master of Technology, (Nigeria); BSc (UoN), MKNAS/173/2015.
24. Prof. Fredrick Alfred Ochieng' Otieno, MBA (South Africa), PhD (England), MSc (Newcastle, England); BSc (UoN), MKNAS/199/2015.
25. Prof. Opiyo Akech, PhD, MSc, BSc

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