

PERSONAL INFORMATION



Professor Adu Adenauer Makokha Wasike.

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Family Name	Wasike
Other Names	Adu Adenauer Makokha
Address	School of Science and Information Sciences P.O. Box 861 – 20500 Narok, Kenya
Nationality	Kenyan
Date of Birth	13 th September, 1963

I studied Applied Mathematics at the University of Nairobi (UoN), where I got a PhD in Applied Dynamical systems in 1997. I also studied Biomathematics at the University of Konstanz and Functional Differential Equations (FDE) at the University of Giessen in Germany. I had a short stay at the Center for Dynamical Systems and Nonlinear Studies (CDSNS) Georgia institute of Technology (GIT) for my Postdoctoral and as an Adjunct Faculty. I had the privilege to visit FU Berlin, where I participated in many seminars in mathematics.

Besides academic work, I have good knowledge in Transformational Leadership, Change Management, Strategic Thinking, Strategic Planning, Strategic Budgeting, and Strategic Implementation through a Balanced Scorecard (BSC), Result Based Management. I have a formal training in and Negotiating Skills from Government Training Institute (GTI) at Matuga and BSC from Center for Strategy and Management. I have done Corporate Governance at the Kenya School of Government. I do consultancies on Performance Contracting seminars on Strategic thinking for some universities and Kakamega county government. In addition, I have raised funds for student's research and for construction of academic facilities in an academic institution.

PROF. ADU A.M. WASIKE'S MISSION STATEMENT

My mission is to live a quality life, learn and leave an enduring legacy in life, research, poverty reduction, intellectually creative enterprises innovation, and transformative university and public administration and leadership.

CAREER OBJECTIVES

1. To excel as a career scholar, academic and administrator;
2. To undertake cutting edge research in my area of specialization and related fields;
3. To contribute meaningfully to teaching, consultancy, innovation and administration at University level;
4. To actively participate in national, regional and international knowledge-generating and disseminating works;
5. To dynamically contribute to local, national, regional and global development initiatives;
6. To transform media of lecturing by adapting e-learning methods.

EDUCATION

- i) Goethe institute, Freiburg, Germany (Oct. 1990 - Apr. 1991)
Learned German language
- ii) University of Konstanz, Germany (Apr. 1991 - May 1992)
Studied: Dynamical Systems, Ordinary Differential equations and Biomathematics.
- iii) University of Giessen, Germany (April 1995 - October 1995)
Studied: Functional Differential Equations.
- iv) ***PhD in Dynamical systems.*** The University of Nairobi, Kenya, 1997.
Title of the Thesis "**An Analytical and Numerical Study of a System of Coupled Oscillators with a Time Lag in the Coupling.**"
- v) ***MSc in Applied Mathematics.*** The University of Nairobi, Kenya, September, 1988.
Title of the Project "**Numerical Computation of Periodic Solutions of Second Order Ordinary Differential Equations by Finite Difference Methods.**"
- vi) ***Bachelor of Science in Applied Mathematics*** (Hons.) University of Nairobi, Kenya, 1986.

ADMINISTRATIVE, MANAGEMENT, AND LEADERSHIP RESPONSIBILITIES

- 1) Vice Chairman and Ag. Chairman Student Organisation of the University of Nairobi (SONU) 1984-1986. Student's representative to the college of Biological and Physical Sciences (CBPS) Academic Board, University of Nairobi. 1983-1986.
- 2) Chairman Muguga Club, 2001-2002
Achievements: Improved the sports facilities (Squash, Tennis, Chess etc), at the club, Improved the security by planting a perimeter fence with Senegalese thorn trees and organised two (2) Hasher's runs at the club.

- 3) Faculty of Science of the University of Nairobi, representative to Senate of the University of Nairobi (2002- June 2006).
Achievements: Participated in many senate committees.
- 4) Chairman Computer Committee, School of Mathematics, university of Nairobi, 2003-2008.
Achievements: For the first time used the money generated by Module programme to purchase computers for all offices in the school and equipped them with relevant pieces of software and internet connectivity at the cost of about **Ksh 1,800,000**. This occurred at the time when connectivity was at its infancy in the university.
- 5) College of Biological and physical sciences, University of Nairobi, representative to San Marco Satellite Earth Station in Malindi, 2003-2008.
- 6) Chairman of the Local Organizing group of and Member the International Scientific Committee of the Eastern African Mathematics Conference & Mathematical Workshop in Nairobi held at the Kenya Institute of Education 4/12/2006 to 10/12/2006.
Achievements: Organised and attended the Eastern African Mathematics Conference & Mathematical Workshop in Nairobi at Kenya Institute of Education 4/12/2006 to 10/12/2006.
- 7) Subject Leader, Mathematics, African Virtual University, May 2008-October 2009:
Responsibilities: Provide leadership in Mathematics, facilitate in the implementation of policies and procedures, guide students in mathematics, prepare and submit quarterly reports to the university, member of Teacher Advisory Committee, facilitate in the development of online programmes for students, (See other terms of reference in the attached letter of appointment).
- 8) Ag. Dean School of Graduate studies MMUST, July-October 2009.
Achievements: Streamlined the procedure and guidelines of Theses Examination. Chaired various senate ad-hoc committees.
- 9) Director Performance Monitoring and Evaluation, October 2009-October 2015.
Achievements: Founder Director of the Directorate that is in charge of Performance contracting, Performance Appraisal System (PAS), and Monitoring and evaluating Performance. Organised a successful workshop on the Result Based Management and PAS at the cost of about Ksh **850,000**.
Developed Performance Appraisal Tools and a policy on the system of reward for best performers at MMUST.
Chaired various senate ad-hoc committees.

- 10) Member of the Quality Assurance Board and Management Review Committee at MMUST October 2009-October 2015.
Achievements: Steered the University to ISO certification and maintained quality.
- 11) September October 2015- October 2017. Member of the Senate of MMUST.
Achievement: Chaired various senate ad-hoc committees.
- 12) September October 2015- October 2016. Member of the Senate of MMU.
Achievement: Member of various senate ad-hoc committees.
- 13) May 2018- to Date: Member of the Senate of MMU.
Achievement: Chaired various senate ad-hoc committees.

ACADEMIC APPOINTMENTS

DATE	POSITION
24 th April –Date	Professor, Department of Mathematics and Physical Sciences, Maasai Mara University.
25 th March. 2015- 24 th October 2017	Professor, Department of Mathematics, Masinde Muliro University of science and Technology(MMUST)
12th June 2008- March.2015	Associate professor, Department of Mathematics , Masinde Muliro University of Science and Technology.
March 2003- 31 st October 2008	Senior Lecturer: School of Mathematics, University of Nairobi
17 th Nov. 1996 to March 2003	Lecturer: Department of Mathematics, University of Nairobi
Oct 1988 – Oct 1996	Tutorial Fellow: Department of Mathematics, University of Nairobi.
1 st Sept. 2015–31 st September 2016	Sabbatical at Maasai Mara University, Narok.

OTHER APPOINTMENTS

Jan 1982–Oct. 1983	Ungraded Teacher: Chewle Girls High School, Bungoma.
July 1984 – Sept. 1984	Ungraded Teacher: Kabuyefwe High School, Kitale.
July 1988 – May 1989	Assistant Telecomm Controller: Kenya Posts and Telecommunications Corporation.
1990	Part time Lecturer: Jomo Kenyatta University of Agriculture and Technology
Sept. 2005	Part time Lecturer: Kiriri Women University of Science and Technology

Description of Achievements

1. **July 1988 – May 1989** Assistant Telecomm Controller: Kenya Posts and Telecommunications Corporation.
Did Planning for Telecommunication services.
2. **17th Nov. 1996 to March 2003** Lecturer: University of Nairobi
Achievements: Revised MSC. Programme in Applied Mathematics to include, among other notable changes new trends in Mathematics, Dynamical Systems, and Functional Differential Equations. This knowledge is important in mathematical modelling.
3. **March 2003- 31st October 2008** Senior Lecturer: University of Nairobi
Achievements: Developed Study Material for Open and Distant Learning (ODL) Science Program as follows:
 - a) Ordinary differential Equations I: University of Nairobi (2005)
 - b) Ordinary differential Equations II: University of Nairobi (2006)
 - c) Ordinary differential Equations I: University of Nairobi (Electronic content-Asynchronize mode) (2005)
 - d) Ordinary differential Equations III: University of Nairobi (2007)
4. **12th June 2008- March.2015.** Associate professor Masinde Muliro University of Science and Technology (MMUST).
Achievements: Revised MSC and PhD Programmes in Applied Mathematics to include, among other notable changes, Dynamical Systems, Functional Differential Equations, Stochastic Differential Equations and Biomathematics. Developed a curriculum on Monitoring and Evaluation. This knowledge is important in mathematical modelling.
5. **25th March. 2015-** to Date Professor
6. **1st Sept. 2015–31st September 2016:** Sabbatical at Maasai Mara University, Narok.
Achievements: Development post graduate programme in Applied Mathematics and Bachelor of Science in Actuarial Science.

SCHOLARSHIP

Publications

1. A. A. M. Wasike: An analytical and numerical study of a system of Linearly Two Coupled Oscillators with a time Lag in the coupling; *Proceedings of the first conference of the Kenya Mathematical Society* 1993: 27-28. Ed. Ogana & Mberia
2. A. A. M. Wasike: Periodic solutions of systems of delay differential equations. *Indian Journal of Mathematics* **Vol. 44 No. 1** 95-117 (2002).
3. A. A. M. Wasike, W. Ogana: Periodic solutions of a system of delay differential equations for a small delay. *Journal of Science Research - Science and Technology* **Vol. 7 No. 2** (2002).295-302
4. A. A. M. Wasike: Synchronization and Oscillator death in diffusively coupled lattice oscillators. *International Journal of Mathematical Sciences* **Vol. 2 No. 1** (2003), 67-82
5. A.A.M. Wasike, N. R. Ndungu., G.P. Pokhariyal: Global asymptotic behaviour of Aquatic Vegetation in a system with periodic Nutrient supply, *African journal of science and Technology (AJST)* **Vol. 7 No.4** (2006), 41-50
6. Lecture Notes in Ordinary Differential Equations I: University of Nairobi (2005)
7. Lecture Notes in Ordinary Differential Equations II: University of Nairobi (2006)
8. Lecture Notes in Ordinary Differential Equations I: University of Nairobi (Electronic content- Asynchronize mode) (2005)
9. Lecture Notes in Ordinary Differential Equations III: University of Nairobi (2007)
- 10.A.A.M. Wasike, K.T. Rotich: Synchronization, Persistence in Diffusively Coupled Lattice Oscillators *Sultan Qaboos University Journal of Science*, **Vol.12 (1)** (2007): 41-52.
- 11.A.A.M. Wasike, Stability and Persistence of Synchronization in a Diffusive-time- lag Coupling. *SQU Journal for Science*, **Vol.13** (2008) 33-41
- 12.A.A.M. Wasike, Stability of the Synchronized Manifold in an All-to-all time Lag-diffusively Coupled Oscillators, *SQU Journal for Science* **Vol. 14** (2009),45-51.
13. G. Kimathi, A.A.M. Wasike, G.P. Pokhariyal: Mutual Inhibition, Competition, and Periodicity in a Two Species Chemostat-like System. *International Journal of Applied Mathematics and Computation* **Vol. 4(1)** (2012), 77-86.
- 14.A.A.M. Wasike, George E. Kimathi, Ganesh P. Pokhariyal, Global asymptotic behaviour of aquatic vegetation in a periodically mediated system. *International Journal of Modern Engineering Research (IJMER)* **Vol. 2(5)** (2012), 3248-3256
15. G. E. Kimathi, A. A. M. Wasike, G. P. Pokhariyal, Mutual Inhibition in a Two Species Chemostat-like System. *American Journal of Mathematics and Mathematical Sciences* **Vol 2. No1** (2013) 19-29.
16. A. A. M. Wasike, F.T. Kibwott, G.O. Lawi, M.O. Nyukuri, A HIV/AIDS Model in a Homogeneous Population with Time Lags in the Transmission. *Applied Mathematical Sciences*, **Vol. 8 No. 34** (2014), 1643-1657.
- 17.A. A. M. Wasike, S.A. Bonga'ng'a, G.O. Lawi, M.O. Nyukuri, A Predator-Prey Model with a Time Lag in the Migration. *Applied Mathematical Sciences*, **Vol. 8 No. 75** (2014), 3721-3732.

- 18.S. Sindayigaya, K.L. Nyongesa, A.A.M. Wasike, Statistical Model for Poverty Estimation with Assessment of One-Cow-one Family Program in Rwanda, *International Journal of Statistics and Systems*. **Vol. 9. No. 2** (2014) 119-145
- 19.Makwata H. O., Wasike A.A.M, Ochanda,O.B, Stability Analysis of a Fishery Model with Nonlinear Variation in Market Price *AJEST* **Vol. 1** (2015) 158-163.
- 20.Chinyingi, P.W., Wasike, A.A.M, Lawi. G.,Kibwott, F.T. Mutual Inhibition to growth with Holling Type III inhibition function in a Two Species Chemostat-like System. *IOSR Journal of mathematics*, (2015) **Vol II. Issue 4**.
21. R.W. Wanyonyi, K.L. Nyongesa ., A.A.M. Wasike; Estimation of Proportion of a Trait by Batch Testing with Errors in Inspection in a Quality Control Process, *International Journal of Statistics and Applications*, 2015 **5(6)** 268-278.
22. R.W. Wanyonyi , K.L. Nyongesa, A.A.M. Wasike; Estimation of Proportion of a Trait by Batch Testing Model Quality Control Process, *American Journal of Theoretical Statistics*, 2015 **4(6)**,pp 619-629.
- 23.Makokha, L. Nyongesa, K.L., Wasike, A.A.M, Chonge, M, Tireito,F, F., Wasawa, S. Markovian Model of Rainfall Pattern with Application. *IOSR Journal of Mathematics*, (2016) **Vol.12.Issue 4, Ver. II**,pp70-74.
- 24.S. Sindayigaya, K.L. Nyongesa, A.A.M. Wasike; The Population Mean and its Variance in the Presence of Genocide for a Simple Birth-Death-Immigration-Emigration Using the Probability Generating Function; *International Journal of Statistics and Analysis*. **Vol. 6. No. 1** (2016) 1-16
- 25.Simwa, R.O., Wasike, A.A.M., Pokhariyal, G.P., An HIV/AIDS model with information on Individuals HIV/AIDS status. *International Journal of Emerging Technology & Research*. **Vol 3, Issue 4** (2016) 71-76
- 26.S. Sindayigaya, K.L. Nyongesa, A.A.M. Wasike, Statistical Model for Poverty Estimation with Assessment of One-Cow-one Family Program in Rwanda, *International Journal of Statistics and Systems*. **Vol. 9. No. 2** (2014) 119-145
27. Juliana Chitai, Adu A.M. Wasike; Multistability Analysis of a mathematical model of the interaction of *Opuntia Stricta* and *Dactylopius opuntiae*; *Journal of Innovative Technology and Education*. **Vol. 4. No. 1**, 121-129(2017)
- 28.Makwata H. O., Wasike A.A.M, Chikamai, Stability Bifurcation Analysis of a Fishery Model with Nonlinear Variation in Market Price; *Applied Mathematical Sciences*, **Vol. 12. No. 7**, 337-350(2018)
29. Wasike A.A.M., Robustness and Stability of Synchronization in a Diffusive-time- lag Coupling. *Turkish journal of Mathematics and computer science (In Review)*
- 30.Makwata H., Lawi G., Akinyi C. Wasike A.A.M, A fishery model with dispensation term in the population growth equation ; *journal of Innovative Technology and Education(Submitted)*.
- 31.Makwata H., Lawi G., Akinyi C. Wasike A.A.M, Stability and Bifurcation Analysis of a fishery model with Allee Effects; *Journal of Innovative Technology and Education(Submitted)*
- 32.Applied Dynamical Systems and Differential Equations (Book). In Preparation

AWARDS AND GRANTS

- (i) DAAD Scholarship, Oct. 1986 – Oct. 1988: Masters at the University of Nairobi.
- (ii) DAAD Scholarship, Oct. 1990 – May 1992: Ph.D. University of Konstanz, Germany.
- (iii) DAAD Scholarship, Apr.1995 – Sep. 1995. University of Giessen, Germany. (DM. 9600)**
- (iv) DAAD Research Grant 1992. (DM 22,000)**
- (v) UNESCO Fellowship-Research: 1st June 1997 – 31st Aug. 1997. Post doctoral Visit at the Centre of dynamical systems and nonlinear studies at the Georgia Institute of Technology, Atlanta, USA. **(US \$ 4000)**
- (vi) DAAD Research fellowship, Apr. 2005 – June .2005: Freie University Berlin, Germany. (EUR. 9600)**
- (vii) Raised a grant from DAAD to purchase computers for the Department of Mathematics, University of Nairobi, 1996. **(Ksh 1,568,000)**
- (viii) Jointly with Prof. John Odhiambo- Strathmore University, Prof. Henry Mwambi-Kwazulu Natal raised a grant from DAAD to purchase books for the School of Mathematics Library, University of Nairobi, 2003. (Cost approx. **Ksh 2,000,000**)
- (ix) Raised Research Grants for George Kimathi PhD. Work 2010 **(Ksh 1.2 Million)**
- (x) Raised Research Grants for Ronald Wanyonyi PhD. Work 2014, **(Ksh 850,000)**
- (xi) Raised Grants for Ndivisi Girls High school for various infrastructure facilities, years 2012-2015 **(Ksh 36 Million)**.
- (xii) ICS-World Laboratory July 1990 **(Swiss Francs 24,000)**

SUMMARY OF FUNDING

TYPE	SOURCE	Time	AMOUNT
Student's Research	NACOSTI	2010/2014	Ksh. 2,050,000
Personal Research Grants	DAAD	1992-1995	DM 31,600
Personal Research Grants	DAAD	2005	EUR 9600
Personal Research Grants	UNESCO/ICSU/TWAS	July 1997	US\$ 4000
Personal Research Grants	ICSC-World Laboratory	July 1990	SF 24,000
School Construction	Government of Kenya	2012-2015	Ksh 36,000,000
Conference/ Workshop	MMUST	2010	Ksh 850,000.
Purchase of Equipment	DAAD	1996	Ksh 1,568,000
Purchase of Equipment	UoN	2005	Ksh 1,800,000

Academic Supervision

MSC Supervision

Topic	Student's Name	From	To
Multistability Analysis of a Nutrient dependent System for Waterhyacinth.	F. Nzuki	Sept. 2000	June 2001
Multistability Analysis of planktonic populations in a lake with a Periodic Nutrient supply.	Mutai.	Sept. 2003	June 2004
Global Asymptotic behaviour of an aquatic system with periodic nutrient supply.	R.N., Muiruri.	Sept. 2004	June 2005
Synchronization in an oscillator network with delayed coupling.	Kirui ,Wessely.	Oct. 2004	Aug. 2006
Synchronization stability and Robustness of diffusively coupled lattice oscillators.	Rotich ,K.T.	Sept.2005	June 2006
Stability and Persistence of Diffusively Coupled Lattice Oscillators with Time Lag.	Wairimu, J.	Sept. 2006	June 2007
Price dependent Harvesting of a Fishery model.	Harun Makwata	July 2010	July 2011
Estimation of Prevalence using ordered pool testing scheme in the presence of testing	Collins A. Musavi	2008	Sept. 2012
Analytic and Numerical Study of a Reaction- Diffusion Equation with Diffusion dependent on the carrying capacity	Hilary M. Angoche	Aug. 2012	Dec. 2013
A Model for Herbivore-Plankton Interaction with a Periodically Supplied Growth Limiting Nutrient	Julia Chitai	Aug. 2012	Dec. 2013
A HIV/AIDS Model in a Homogeneous Population With Time Lags in the Transmission	Franklin Tireito	Jan. 2013	Dec. 2013
A Predator-Prey Model with a Time Lag in the Migration.	Samuel Apima	Jan. 2013	Dec. 2013
Mutual Inhibition to growth in a two species Chemostat-like System	Patrick Chinyingi	Jan. 2013	Dec. 2013
Markov Chain Modelling of Rainfall with Application to Real Data	Lucy Makokha	March 2014	May 2015
PhD Supervision			
Mutual Inhibition, Competition, and Periodicity in a Two Species Chemostat-like System	George Kimathi	April 2008	Sept. 2012
Using group testing strategy to Estimate the proportion of defectives in a quality control model	Ronald Wanyonyi	Aug 2012	Aug. 2015
Dynamics of a Fishery Model with allee effects	Harun Makwata	Aug 2011	Ongoing
Persistence and Stability in Synchronous Systems	Kimutai Metete	Aug 2011	Ongoing
Generalization of Block Testing Strategy and its Extension to dependent Data	John Paul	Aug 2012	Ongoing
Age-Sex Specific Stochastic Population Modeling With Uncertainty using Functional data of Rwanda	Samuel S.	June 2013	May 2017
Stability and Persistence of Diffusively Coupled Lattice Oscillators with Time Lag.	Wairimu, J.	Oct. 2008	June 2012
Bayesian Inference of Prevalence using ordered negative Binomial pool testing Scheme in the Presence of testing Errors	Collins A. Musavi	May 2013	Submitted

MEMBERSHIP TO PROFESSIONAL BODIES

- 1) Founder Member of The Kenya DAAD Scholars association;
- 2) Member of The Kenya institute of Management (Since: year 2011).

SEMINARS, WORKSHOPS TRAINING

Seminar/Workshop/Conference	Place	From	To
Many Mathematical Seminars	Frei University, Germany	Apr. 2005	June 2005
World intellectual property rights workshop	Moi University Eldoret	9/11/97	14/11/97
Many mathematical Seminars	Konstanz University, Germany	April, 1991	May 1992
Eastern African Mathematics Conference 2006 & Mathematical Workshop	Nairobi, Kenya	4/12 /2006	10/12/2006
Performance Appraisal Systems (PAS)	Government Training Institute(GIT), Matuga	14/2/2010	19/2/2010
Monitoring Evaluation Workshop	MMUST	6/5/2010	7/5/2010
Trained in E-Performance/Project Management	Mombasa Continental Hotel	14/9/2010	17/9/2010
Implementation ISO 9001:2008	MMUST	14/3/2010	16/3/2010
Trained in e-ProMIS	Kenya School of Monetary Studies	17/5/2010	21/5/2010
Quality Management System(KEBS) ISO 9001:2008	MMUST	14/3/2011	16/3/2011
2 nd Council Retreat: University Management for Quality Education in Challenging Environment	Mombasa Beach Hotel	12/2/2012	17/2/2012
Guidelines on Mainstreaming Disability	MMUST	1/3/2012	2/3/2012
Performance Contracting and Management Coordinator's Congress	Naivasha	17/4/2012	20/4/2012
Balanced Score Card Workshop	Center for Strategy & Management	6/02/2014	7/02/2014
Stakeholders meeting on Job Evaluation for Public Service	Kenya School of Government, Nairobi	28/02/2014	28/02/2014
Strategic thinking Seminar	MMUST	Jan 2015	

I've attended over 100 academic seminars and workshops, both locally and internationally.

Other Seminars/Conferences/Workshops

Commission For University Education Stakeholder Engagement Workshops (Eldoret- 26th – 28th AUGUST, 2018)

Discussed issues on the following topics:

- 1) Quality Performance;
- 2) Tenure track System of Employment for University staff;
- 3) Role University Should Play in the move from exam oriented education to competency-based education, how are the university preparing for the students;
- 4) Benefits of CUE engagement with universities' and how to improve;
- 5) By 2018-All teaching staff MUST hold a PhD as set in 2014- need to revisit because it has not been realised;
- 6) Funding of University education and research;

International Conference in Mathematics and Mathematics Education (Ordu Turkey, 26th June-29th June 2018) The following was done:

- 1) Current research trends in Mathematics, computational mathematics and Mathematics Education;
- 2) Presentation of research papers.

Corporate Governance Course (Kenya School of Government 15/02/2016-19/02/2016)

The following was covered:

- 1) The concept & principles of Corporate Governance;
- 2) Strategic Thinking;
- 3) Risk Management Framework;
- 4) Effective Conduct of Board Meetings, Communication and Reporting in Boards, Ethics in Corporate Governance and Directorship, Code of Best Practice, corporate culture, Performance Management, Official Etiquettes and Protocol etc.

3rd Council Retreat: Transformative Leadership for Quality Higher Education in Attainment of Vision 2030 (Mombasa Beach Hotel, 19/08/2015- 21/08/2015).

The following was done:

- 1) Mwongozo;
- 2) Transformational leadership;
- 3) Change management;
- 4) Strategic Thinking;
- 5) Strategic Planning;
- 6) Strategic Budgeting;
- 7) Strategic Implementation through a Balanced Scorecard (BSC) and;
- 8) Result Based Management.

Stakeholders Workshop on the Strategic Plan(SP) for the period 2015/2016-2009/2010 (Starburck Hotel Eldoret 5/2/2015-7/2/2015)

Fine tune the SP.

Biomathematics Workshop MoHEST (Kenya)-IRD(France) (Morendat, Naivasha, 22/ 6/2009-26/ 6/2009)

The following was done:

- 1) Presentation of academic papers;
- 2) Established a **collaboration with IRD(France)**, where Kenyan mathematicians can do joint research with French mathematicians;
- 3) Kenyan students can to PhD. research in France.

World intellectual property rights workshop (Moi University Eldoret, 9/11/97-14/11/97)

The following was covered:

- 1) Strategic Considerations Related to Commercial Exploitation of Intellectual Property and Know-How: Intellectual Property Rights in the Educational Process; Intellectual Property Rights in the Business Development of Universities; Intellectual Property Rights in the Protection of Selling Ideas in Universities;
- 2) Patents, Trade Marks, Geographical origin.etc.

Monitoring & Evaluation Curriculum Development Workshop Great Rift Valley Lodge & Resort, Naivasha 22/11/2010- 26/11/2010)

Together with Stakeholders, developed a curriculum in Monitoring and Evaluation.

TECHNICAL SKILLS AND COMPETENCES

Computer literate: Introduced the use of LaTeX, a mathematical Editor, in Kenya (1992). Dreamweaver, MatLab, Excel.

Management:

- 1) Transformational leadership;
- 2) Change management;
- 3) Strategic Thinking;
- 4) Strategic Planning;
- 5) Strategic Budgeting
- 6) Strategic Implementation through a Balanced Scorecard (BSC) and;
- 7) Result Based Management (See Certificates from Government Training School at Matuga and BSC from Centre for Strategy and Management respectively).

Project Management: Trained in Electronic Project Monitoring Information System (E-Promis)

Editor: Eastern Journal of Science Engineering and Technology (ISSN-2219-8598)

Peer Reviewer: Hikari, Applied Mathematical Sciences (ISSN 131-885X(print) ISSN 1314-7552(online))

Examiner: Maseno University and University of Nairobi.

CONSULTANCIES

1. Kibabii University College: Performance Contracting and Performance Appraisal, 23rd November 2012.
2. County Government of Kakamega: Training Performance contracting and cascading, 15th June to 19th June 2015.
3. Kaimosi University College: Performance Contracting and Performance Appraisal, 3rd June 2015.
4. Subject peer Reviewer of Mathematics, Maasai Mara University 2015, 2018

COMMUNITY SERVICE

1. Chairman Board of Management Ndivisi Girls High School.
Achievements: Raised funds and developed various school facilities worthy Ksh 36. Million. Introduced, Performance Appraisal System (PAS) at the school and as a result we have the school post very good results.
2. Chief Guest at Graduation Ceremonies at Beam International Training centre 30th November 2011. Helps in outreach services, the marketing of the university and promoting education through indicating how students can transit to university Education.
3. Primary School Book: Authored “Guided Revision Questions for KCPE” (Check Text Book centre Website)

HOBBIES

Playing Chess

REFEREES

1. Prof. Jack .O. Nandi

The Principal

Kaimosi Friends University College,

P.O. Box 385-50309, Kaimosi.

e-mail: principal@kafuco.ac.ke

Tel No :+254720321858

2. Professor Ganesh P. Pokhariyal

School of Mathematics University of Nairobi

P.O. Box 30197-00100, Nairobi.

e-mail: pokhariyal@uonbi.ac.ke

Tel No: +254733881935

3. Professor Joseph K. Rotich

Vice Chancellor

Laikipia University

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