



PROF. EDWIN EDWARD KADIMA WAMUKOYA
PROFESSOR

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A. PERSONAL DETAILS

Name	Prof. Edwin Edward Kadima Wamukoya		
Date of Birth	14th May 1955	Age	61 years
Nationality/Citizenship	Kenyan	Marital status	Married
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B. LANGUAGE SKILLS: Kiswahili,, English and Luhya

C. PERSONAL VISION: Working in a multi-cultural and empowering environment that recognizes diversity, human potential and development

D. EDUCATION AND PROFESSIONAL QUALIFICATIONS

University of Manchester (UK) Doctor of Philosophy	1990-1993
Kenyatta University Master of Education	1984-1986
University of Nairobi (ACO) Post Graduate Diploma in Curriculum Development (Credit Pass)	1983-1984
University of Nairobi (KUC) B.Ed. (2nd Class Hons, Upper Div.)	1977-1980
Kakamega High School EAACE (3 Principles, 1 Sub)	1975-1976
Namulungu Secondary School EACE (Division II)	1971-1974
Namulungu Primary School CPE	1964 -1970

G. SCHOLARSHIPS AND GRANTS WON

- 2008-2010 Visiting Lecturer – Pwani University College
- 2000 – 2003 Visiting Lecturer, Kyambogo University, Uganda.
- 1998: Japanese Cultural Grant worth 45 million Japanese Yen (24 Million Kenya Shillings) for the Supply of Sports Equipment to Physical Education Department, Kenyatta University, Kenya. A proposal Prepared and Submitted in 1997.
- 1997-1998 Visiting Lecturer, University of Dar es Salaam
- 1996 Member of the Kenyatta University Educational Delegation to the Peoples' Republic of China
- 1995 Visiting Scholar to the University of Minnesota, USA under the Kenyatta–Minnesota Universities Link Programme.
- 1990–1994 Association of Commonwealth Universities Scholar, University of Manchester, Centre for Physical Education and Leisure Studies, Britain.
- 1983 – 1984 GTZ Scholar: University of Nairobi, African Curriculum Organisation (ACO), KIE

H. PROFESSIONAL OBJECTIVES

Working in a multi-cultural and empowering environment that recognizes diversity, human potential and development. Towards this objective, I have for several years travelled to Uganda, Tanzania, Botswana, Zimbabwe, Britain, USA and the People's Republic of China as a student on scholarship (ACU), a player (Handball), national representative in sports, visiting scholar, external examiner (Physical Education and Sports Science) and a member of staff on exchange programme. From these travels, I have gained extensive experience in University teaching, supervision, administration (Personnel Management). As a Scout and member of the Red Cross, I welcome any opportunity to share and dialogue with colleagues with a view to leaving a place better than I found it.

J. NATIONAL AND INTERNATIONAL RECOGNITIONS

1. Vice Chancellor's Extra Mile Award in Recognition of Exemplary Service to Kenyatta University 2009
3. Listing in the 25th Anniversary Edition of the Marguis 2009 Who is Who in the World. American Bibliographic Institute
4. Certificate of Recognition for Outstanding Contribution towards the University's Attainment of First Position in the Performance Contracting (State Corporations) 2006/2007 Cycle – 2008
5. Vice Chancellor's Extra Mile Award in Recognition of Exemplary Service to Kenyatta University 2007

6. Honorary Appointment to the Research Board of Advisors. American Biographical Institute, 2004
7. Listing in The Contemporary Who is Who in the World. American Biographical Institute 2002/2003.
8. Trophy and Certificate from the Africa Association for Health, Physical Education, Recreation, Sport and Dance (AFAHPER-SD) for Outstanding Contributions to the Growth and Development of Health, Physical Education, Recreation, Sport and Dance in Africa 2003.

M. PROJECTS SUCCESSFULLY INITATED

1. Zetech University
2. Kenyatta University Staff and Student Health Club
3. Kenyatta University Mombasa Campus

O. CURRENT RESPONSIBILITIES HELD

1. Dean School of Public Health, Biomedical Sciences and Technology. Masinde Muliro University of Science and Technology
2. Chief Editor, Journal of Health Promotion and Sports Science. A publication of the Health Promotion and Sports Science Department. Masinde Muliro University of Science and Technology.
3. Chair, Board of the Science Park, Masinde Muliro University of Science and Technology (2019 to date)
4. Member of the Board of Management (BOM) Bishop Sulumeti Girls High School. Kakamega
5. Vice Chair, Board of Management (BOM) St. Chrries Lwanga Khalaba Secondary School

R. COMPLETED THESES SUPERVISED

(a) Doctor of Philosophy (Ph.D)

1. Namusonge, Lucy Natecho (2022) Respectful maternity care interventions in promoting quality at level 5 health facilities in bungoma county, kenya
2. Sandra S. B. Kasoma (2011) Effect of Regular Physical Activity on Functional Independence in the Elderly in Uganda
2. Soita Wanzala Pascal (2010) The Status of Service Quality Delivery in Commercial Health and Fitness Clubs in Uganda
3. Constance Adron Nsibambi (2010) Assessment of Health Related Fitness of 6 to 9 year Old Primary School Pupils in Mukono and Wakiso Districts of Central Uganda
4. Kadoodooba Micheal Akiiki (2009) Comparative Assessment of Syllabi and Implementation of Physical Education and Sports Programmes in Primary and Secondary Schools in Kenya and Uganda

5. Jane Wanjiru Kamau (2008) Prevalence, Intervention and Management of Overweight and Obesity Among Primary School Children in Nairobi Province, Kenya
6. Mugalla Hannington Bulinda (2008) Analysis of Demographic Factors Achievement, Goal Orientation Satisfaction Among Kenya Volleyball League Players
7. Andanje Mwisukha (2006) Certification of Athletics Coaches in Kenya.
8. Vincent Onywera (2006) The African Running Phenomenon: The Role of Genetics, Nutrition and Demographic Factors in Explaining the Success of East African Runners in International Distance Running
9. Njororai W.W. S (2000) A Comparative Analysis of Technical and Tactical Performance of National Soccer Teams of Kenya, Germany and Argentina.
10. Wanderi Peter Mwangi (2000) Traditional Games of the People of Mount Kenya Region – A Cultural-Educational Appraisal.

(b) Masters

1. Nabaggala Elyvania (2021) Determinants of Children's Participation in Organized Physical Activity: A case of Kawempe Division-Kampala, Uganda An M. Sc. Thesis. Kyambogo University
2. Esther Vurigwa (2020) Knowledge, Attitudes and Practices of Nurses in Promoting Antenatal Exercises in Kakamega County, Kenya. An M. SC. Thesis. Kenyatta University
3. Abdikadir Molu Kike (2009) Administrative Challenges Concerning Implementation of Free Primary Education. A case of Likoni Division, Kilindini District, Coast Province, Kenya.
4. Odiango Roselyne Ajwang. (2009) Effectiveness of Physical Education Programme on Health-Related Fitness of the Physically Challenged Pupils. A case of Joyland Special School, Kisumu.
5. Githanga Julia Wambui (2008) Physical Activity and Functional Independence of Elderly Persons in Selected Homes for the Aged in Nairobi, Kenya
6. Issah Kweyu Wabuyabo (2007) Influence of Islam on Sports Participation Among Muslim Students in Kenyan Public Universities.
7. Sakwa Agneta Makokha (2002) Students' Attitudes Towards Participation in Physical Education. A case of Secondary Schools in Nairobi Province.
8. Onywera Vincent (2001) An analysis of Acute Injuries incurred by Players during the 2001 Moi Golden Cup Soccer Tournament in Kenya.
9. Odero Martin Ngesa (2000) Analysis of Offensive Patterns of Play of Kenyan Male Handball Teams in National Tournaments.

10. Bulinda, Hannington Mukala (2000) Motivational Factors that Affect Primary School Pupils' Participation in Organised Sport in Shinyalu Division of Kakamega District, Kenya.
11. Evans Lukalo Madaga (1999) An Investigation of Injuries in Handball, Field Hockey, Soccer and Volleyball in Kenya.

T. PRESENTATION OF PAPERS AT ACADEMIC AND PROFESSIONAL CONFERENCES/SEMINARS

1. Wangui Anthony Muchiri, **Edwin K. Wamukoya**, Oloo Micky Olutende and Issah W. Kweyu (2019) Concussion Knowledge, Attitude/Behaviours and Return to Play Among Kenyan Rugby Players in the Championship League 2019. 4th International Conference of the African Sport Management Association (ASMA). Mount Kenya University 4th – 6th April 2019.
2. **Wamukoya, E.E.K.** (2016). Nurturing innovative competencies for economic prosperity. A presentation to the 2016 Kenya Music Festival Adjudicator's and Trainers' Workshop held at Tom Mboya Labour College, Kisumu. 23rd – 29th April 2016
3. **Wamukoya, E.E. K.** (2015) Preparing for Retirement: Opportunities and Strategies Available. A presentation to the KPA Staff Pension Scheme 14th September 2015
4. **Wamukoya, E.E.K.** (2015) Understanding and positioning oneself for the future-Self Branding." A paper presented during the Career Fair at Buruburu Girls' High School on Saturday, May 23rd 2015
5. **Wamukoya, E.E. K.** (2015) Preparing for Retirement: Opportunities and Strategies Available. A presentation to the KPA Staff Pension Scheme 14th September 2015
6. **Wamukoya, E.E.K.** (2015). Consolidating Our National Values and Ideals through Music. A paper presented to the Adjudicators and Music Trainers Training Workshop at Tom Mboya Labour College Kisumu April 2015
7. Mwisukha, A., Njororai, W. W. S, **Wamukoya, E. K.** and Boit M. (2008): Insights into the Training of Athletics Coaches in Kenya. Paper presented at the 1st Continental International Conference of Coaches Education held between 23rd and 25th October, 2008 in Pretoria, South Africa.

V. PUBLICATIONS

(A) Books

1. Wamukoya, E. E. K. (2011) Chozi la Ukingoni. Mchezo wa Kuigiza. Mombasa: Jor's Publishers.
2. Issah K. Wabuyabo & Wamukoya, E.E. K. (2009). Physical Fitness Companion: A guide to Fitness Instruction and Exercise Prescription. Mombasa: Jor's Publishers.

3. Republic of Kenya (2005). Sessional Paper No. 3 of 2005 on Sports Development. Ministry of Gender, Sports, Culture and Social Services. Nairobi: Government Printer.
4. Wamukoya, E.E.K. (2003). Management of Physical Education and Sports. Module for Open Learning Programme, Kenyatta University
5. Wamukoya, E.K. (Ed). 2003). Issues in Primary School Physical Education in Kenya. Journal of the Institute of Kinesiology, Leisure and Recreation Management
6. Curriculum Steering Committee (1998). Physical Education Teachers Guide for Lower Primary (P1-P3). Secretariat for Education. New Sudan
7. Curriculum Steering Committee (1998). Physical Education Syllabus (P4-P7). Secretariat for Education, New Sudan.
8. Curriculum Steering Committee (1998). Physical Education Syllabus (P4-P7). Secretariat for Education, New Sudan.
9. Curriculum Steering Committee (1998). Physical Education Teachers Guide for Lower Primary (P1-P3). Secretariat for Education. New Sudan

(B) Book Chapters

Elizabeth Mse, **Edwin K Wamukoya**, Odiango Ajwang & Victor A. Indakwa (2021) Investigating the Practices of Supplements as Performance Enhancing Substances among Kenyan Elite Middle and Long Distance Runners. In book: Current Approaches in Science and Technology Research Vol. 6. DOI: [10.9734/bpi/castr/v6/2157F](https://doi.org/10.9734/bpi/castr/v6/2157F)

(C) Peer Refereed Journals

1. Micky Oloo, Anthony Muchiri Wangui, David Kaniaru & **Edwin K. Wamukoya** (2022) Nurses Awareness on Work Related Musculoskeletal Disorders in Kakamega County Kenya. Open Access Library Journal 9:8562. DOI: 10.4236/oalib.1108562
2. Lucy Namusonge, Maximila Wanzala & **Edwin K Wamukoya** (2022) Assessment of Women's Experience of Care during Childbirth for Quality Improvement at Level 5 Health Facilities in Bungoma County, Kenya. The international journal of humanities & social studies ISSN 2321-9203. DOI: [10.24940/theijhss/2021/v9/i11/167148-405001-1-SM](https://doi.org/10.24940/theijhss/2021/v9/i11/167148-405001-1-SM)
3. Micky Olutende, Martin Sisa Yauma & **Edwin K. Wamukoya** (2021) Predictors of Alcohol Abuse among University Students - A Case of a Kenyan University. Journal of Advances in Sports and Physical Education, 4(7): 151-160.15 ISSN 2616-8642 (Print) |ISSN 2617-3905.
4. Micky Olutende Oloo & **Edwin K Wamukoya** (July 2021) Critical gaps in current physical activity and HIV literature: A review. *Journal of Sports and Physical Education (IOSR-JSPE)*e-ISSN: 2347-6737, Volume 8, Issue 4, (Jul. – Aug.

2021), PP 01-09. DOI: [10.9790/6737-08040109](https://doi.org/10.9790/6737-08040109). Project: [physical activity and health](#)

5. Micky Olutende Oloo, Maximila Wanzala, Elizabeth Mse & **Edwin K Wamukoya** (April 2021). Health Promotion Behaviour for Non-Communicable Diseases among Healthcare workers in Kakamega County. *European Journal of Physical Education and Sports Science* ISSN-L:2501-1235. Volume 6 | Issue12 | 20 DOI: [10.46827/ejpe.v6i12.3687](https://doi.org/10.46827/ejpe.v6i12.3687). Project: [exercise and chronic disease](#)
6. **Edwin Kadima Wamukoya** , Anthony muchiri Wangui & Maximilla N. Wanzala, (2021). Exploratory discriminant validity issues of the Sport Motivation Scale-2. *International Journal of Physical Education, Sports and Health* 2021; 8(1): 81-86. P-ISSN: 2394-1685E-ISSN: 2394-1693
7. Micky Oloo Olutende, Maximilla N. Wanzala, Issah Kweyu Wabuyabo & Edwin Kadima Wamukoya (2021) Risk Factors for Obesity among School Aged Children in Kakamega County. *Journal of Advances in Sports and Physical Education*. ISSN 2616-8642 (Print) |ISSN 2617-3905.DOI: 10.36348/jaspe.2021.v04i04.003 |April 2021. Project: [exercise and chronic disease](#)
8. **Edwin K Wamukoya**¹, David Kaniaru, Anthony Muchiri (2020). Effects of Healthcare Providers Overtime Duties and Patient Outcomes, *Journal of Nursing and Health Care* DOI: 10.36348/sjnhc.2020.v03i11.005 307-315 (11) (2020)
9. Anthony Muchiri*¹, **Edwin K. Wamukoya**¹, Donald Kokonya² (2020). Factorial Structure of Rosenberg's Self-esteem Scale among Injured Male Rugby Players in the Kenya cup competition. *European Journal of Fitness, Nutrition and Sport Medicine Studies* ISSN 2668 - 9758 ISSN 2668-L - 9758
10. Anthony Muchiri Wangui¹, **Edwin Kadima Wamukoya**², Micky Oloo Olutende³ (2020) Physiological and Anthropometric Characteristics of Amateur Women in the Kenya Rugby Union. *Journal of Advances in Sports and Physical Education* ISSN 2616-8642 (Print) |ISSN 2617-3905 12.07.2020
11. Micky Olutende Oloo, **Edwin Kadima Wamukoya**, Maximilla Wanzala (2020) Efficacy of Physical Activity Counselling Interventions delivered in Primary Care: A systematic Review and Meta-analysis. *European Journal of Physical Education and Sport Science* ISSN: 2501 -1235ISSN-L: 2501 -1235. Volume 6 | Issue 4 | 2020
12. **Wamukoya, Edwin K.**, Anthony Muchiri Wangui, and Micky Oloo Olutende (2020). "Influence of Social Media Usage on Knowledge of Sexual Violence among college Medical Students in Kenya." *European Journal of Public Health Studies* 3.1 (2020).
13. Micky Olutende Oloo, Edwin K Wamukoya, Maximila Wanzala & Issah Kweyu (2021) Predictors of Occupational Health and Safety Management practices in the Building Construction Industry, Kakamega Kenya IOSR

- Journal of Nursing and Health Science (IOSR-JNHS)e-ISSN: 2320–1959. p- ISSN: 2320–1940 Volume 10, Issue 2 Ser. IV (Mar. – Apr. 2021), PP 43-57. DOI:10.9790/1959-1002044357. Project: physical activity and health
14. Micky Oloo, Edwin K. Wamukoya & Mamximila Wanzala (2019). Validation of a Four-Factor Measurement Model of the Health Promoting Lifestyle Profile-II: a Confirmatory Study with Kenyan Undergraduate Students. December 2019. DOI: [10.36348/sjnhc.2019.v02i12.001](https://doi.org/10.36348/sjnhc.2019.v02i12.001) . Project: [physical activity and health](#)
 15. Esther Vurigwa¹, **Wamukoya Edwin²**, Kokonya Donald³ (2019) Knowledge, Attitudes and Practices of Nurses in Promoting Antenatal Exercises in Kakamega County, Kenya. *IOSR Journal of Research & Method in Education (IOSR-JRME) e-ISSN: 2320–1959.p- ISSN: 2320–1940 Volume 9, Issue 6 Ser. I. (Nov. - Dec .2019), PP 29-34*
 16. Oloo Micky Olutende, Maximilla N. Wanzala & **Edwin K. Wamukoya (2019).** Psychometric Properties of the Health-Promoting Lifestyle Profile II: Validation of the Self-Realization and Health Responsibility Constructs Among Kenyan University Students. *Saudi Journal of Nursing and Health Care. ISSN 2616-7921 (Print) /ISSN 2616-6186 (Online) Received: 08.11.2019 / Accepted: 15.11.2019 / Published: 15.11.2019.*
 17. Oloo Micky Olutende, Anthony Wangui Muchiri, Maximilla N. Wanzala and **Edwin Kadima Wamukoya** (2019). Prognostic validity of morphological, physiological and motor characteristics in classifying university athletes in different sports International Journal of Physical Education, Sports and Health 2019; 6(4):38-44. ~ 38 ~International Journal of Physical Education, Sports and Health 2019; 6(4): 38-44. P-ISSN: 2394-1685E-ISSN: 2394-1693. July 2019. Project: [physical activity and health](#)
 18. Micky Olutende Oloo, Maximila Wanzala & **Edwin K Wamukoya** (2019) Do Health Beliefs predict exercise behavior? Exploring the Constructs of the Health Belief Model. *European Journal of Physical Education and Sport Science.* ISSN: 2501–1235 ISSN - L:2501 – 1235. DOI: 10.5281/zenodo.3451272. Project: physical activity and health
 19. Oloo Micky Olutende, Anthony Wangui Muchiri, Maximilla N. Wanzala and **Edwin Kadima Wamukoya** (2019). “Concussion knowledge and attitudes among sub elite rugby union players in western Kenya”. *European Journal of Public Health Studies.* Vol 1, no. 2: 25-42. <http://dx.doi: 10.5281/zenodo.2652952>.
 20. **Edwin Kadima Wamukoya**, Anthony Wangui Muchiri and Oloo Micky Olutende, (2019). “Role of Physical Activity in the Development of National Goals: Systematic Review”. *International Journal of Research and Innovation in Applied Science (IJRIAS)*,4(4),56-60, ISSN 2454-6194. <http://www.rsisinternational.org/journals/ijrias/digital-library/Vol.IV-Issue-IV.php>

21. Oloo Micky Olutende, Maximilla N. Wanzala, Anthony Wangui Muchiri and **7dwin Kadima Wamukoya**. (2019). "Comparative Study of Anthropometrics, Blood Pressure Phenotypes, and Bio-motor Variables Among Sports and Non-Sports University Students." *European Journal of Physical Education and Sport Science*, vol. 5, no. 6: 14-28. DOI: <http://dx.doi: 10.5281/zenodo.3235813>
22. Anthony Wangui Muchiri, Maximilla N. Wanzala, Micky Olutende Oloo and **Edwin Kadima Wamukoya**. (2019). "Assessment of Pre-season Anthropometric Tests of Rugby Players in a championship club, Kenyan Rugby Union." *European Journal of Physical Education and Sport Science*, Vol 5/Issue 10. ISSN: 2501-1235ISSN-L:2501-1235 DOI: [10.5281/zenodo.3265922](http://dx.doi: 10.5281/zenodo.3265922). July 2019.
23. Mugala Bulinda H.¹, **Wamukoya Edwin K.**² (2017). Influence of age on satisfaction levels of Kenyan Volleyball League Players. *European Journal of Physical Education and Sport Science. Volume 3 Issue 1*. ISSN: 2501-1235. Available on-line at: www.oapub.org/edu
24. Mugala Bulinda H., **Wamukoya E.K.** Bukhala Peter and Issah Wabuyabo Kweyu (2016) Gender Differences on Motivation of Kenyan Primary School Pupils towards Participation in School Sports. *International Journal of Sport Studies*. Vol. 6(2) 95-103. ISSN 2251-7502.
25. Mugala Bulinda H., **Wamukoya E.K.&** Bukhala Peter (2016) Demographic factors affecting achievement goal orientation among Kenya volleyball league players. *International Journal of Sport Studies* Vol., 6 (5), 312-322, 2016 ISSN (online) 2251-7502 January 2016
26. Issah.K. Wambuyabo, **Edwin K.Wamukoya** and Hannington M. Bulinda (2015). Influence of Islam on Gender Participation in Sports among Muslim Students in Kenyan Universities. *Journal of Physical Education and Sport Management*.
27. Githanga, Julia W.; **Wamukoya, Edwin K.**; Onywera Vincent O. (2013). Metabolic Equivalents (mets) of the Physical Activity Patterns of the Elderly Kenyans in Homes for the Aged in Nairobi Province. Vol. 1 No. 2 January 2013; Issue Pg. 43-49. ISSN 2070-917X
28. Constance, A.N. Nsibambi, **E. Wamukoya**, P. Wanderi and V. Onywera (2011). Cardiovascular fitness and involvement of pupils in physical activities in central Uganda. 9th Biennial Conference of the Africa Association for Health, Physical Education, Recreation, Sport and Dance (AFAHPER-SD) 13th – 15th September 2011. Kyambogo University, Kampala Uganda.
29. Francis M. Mwangi, P.M. Wanderi, **Edwin K. Wamukoya**, Vincent O. Onywera and Elijah R. Gitonga (2011). Effects of Different Arm Kinematics on Performance in Long Distance Running. *International Journal of Current Research* Vol. 33 Issue 6 pp.185-190

30. Kamau, J.; M. P. Wanderi, W.W.S. Njororai and **E.E. K. Wamukoya** (2011). Prevalence of Overweight and Obesity among Primary School Children in Nairobi Province. *African Journal for Physical, Health, Education, Recreation and Dance (AFPHERD)*. ISSN 1117-4315 pp.312-327,
31. Wabuyabo Issah; **Wamukoya, E.E. K.** & Shakil Ahmad (2009). Socio-economic Factors Influencing Muslim University Student Participation in Sports in Kenya. *African Journal of Applied Human Science. Kenyatta University 1 No. 1.*
32. Mwangi Francis, Wanderi Peter & **Wamukoya Edwin Kadima** (2008). Effects of Different Arm Actions on Performance in Long Distance Running. *Proceedings of the International Convention on Science, Education and Medicine in Sport. Volume 1 People's Sports Publishing House.*
33. Onywera V, Njororai S. **Wamukoya E.** and Andanje M. (2003). **Analysis of Acute Injuries by Soccer Players during the 2001 Moi Golden Cup Soccer Tournament in Kenya.** *East African Journal of Physical Education, Sports Science and Recreation Management. Vol 1. No. 1*
34. Onywera V.O, (2003). Management of Injuries in Primary schools. In **Wamukoya E.K (Ed): Issues in Primary School Physical Education.** An edited publication of the **Institute of Kinesiology, Leisure and Recreation Management. PP 153-157.**
35. Bulinda H., M. **Wamukoya E. K.** and Njororai W.W.S. and Bukhala P. (2003). Motivational Factors that Affect Primary School Pupils' Participation in Organised Sport: A Case Study of Shinyalu Division of Kakamega District. *East African Journal of of Physical Education, Sports Science and Recreation Management. Vol. 1 No. 1*
36. **Wamukoya, E. K.**, Andanje M. and Onywera V (2003). Prevention and Control of HIV/AIDs Through Sports. *East African Journal of Physical Education, Sports Science and Recreation Management. Vol 1 No. 1.*
37. **Wamukoya, E. E. K.** (2001). The Status of Physical Education Teachers in Kenya. *Journal of Applied Psychology (JASP) Vol.2 No.1.*
38. Shehu, J. & **Wamukoya, E. K.** (1999). A Preliminary Survey of Kenyan Physical Education Teachers' Understanding of Exercise Induced Heat Illness and Management of Heat Stress in Athletes. *ICHPER.SD Journal. The International Council for Health, Physical Education, Recreation, Sport and Dance. Vol XXXV, No.2, Winter 1999.*
39. **Wamukoya, E.E.K.** & Hardman, K. (1992). Physical Education in Kenya Secondary Schools. *The British Journal of Physical Education.*_Vol. 23, No.4, Winter.
40. Krotee, M. L.; Wamukoya, E.E.K., & Black, (1988). The Role of Physical Education and Sport in the Nation of Kenya. London: **ISCPES Monograph.**

41. Krotee, M.L. & **Wamukoya, E.E.K.** (1987). The Role of Physical Education in Child Development. ***Kenya Journal of Education***, 3, pp. 38-52.