

CURRICULUM VITAE
DR. CATHERINE MUHONJA AURAH



DR. CATHERINE MUHONJA AURAH

Masinde Muliro University of Science and Technology
P.O. Box 190-50100 Kakamega, Kenya
+254724966574 (Cell), Email: cataurah@yahoo.com

Life philosophy I believe in self-knowledge, for if we know what we feel it means that we can connect with others from a basis of respect and humility rather than fear, and link with those who feel differently.

Teaching Philosophy Teaching provides an opportunity for continual learning and growth. One of my hopes as a science educator is to instill a love of learning in my students, as I share my own passion for learning with them. I strive to help my students to build their metacognitive abilities so as to be self-regulated learners. In our competitive society it is important for students to not only receive a solid education, but to work with someone who is aware of and sensitive to their individual needs. I am such a person and will always strive to be the best science educator that I can be.

Overall, I am interested in the bigger picture of how to bring about a paradigm shift in learning and teaching of science at high school and college levels

EDUCATION

2013 Doctor of Education; Science Education
Ball State University, Muncie, 47304 IN, USA

Dissertation: The Influence of self efficacy and Metacognitive Prompting on Genetics Problem Solving Ability among High School Students in Kenya.

2012 MSC. Environmental Education
Masinde Muliro University of Science and Technology

Thesis: Assessment of Extent of Plastic Bag Waste Management Methods Used in Nairobi City Promote Sustainability

2010 MA. Educational Psychology
Ball State University, Muncie, IN, USA

2006 BED. Science (Mathematics and Biology)
Moi University

1986 Diploma in Science Education (Mathematics and Biology)
Kenya Science Teachers College

RESEARCH INTEREST

My research interests revolve around science education in the following areas:

- Problem solving
- Psychosocial Factors in Learning Science: Self-efficacy; metacognition, Motivation; Attitude
- Self-regulated learning in science

- Pre-Service Teacher Professional development- Exploring self-efficacy and metacognitive abilities of pre-service teachers
- ICT Use in STEM Teaching and Learning
- Gender Disparity in STEM education

ONGOING RESEARCH PROJECTS

- Gender Parity in STEM education in Kenya (GEPSTEMIK): Pedagogical Integration of Technology to ensure quality, equity, resilience and Sustainability in STEM education during and Post-covid-19 pandemic: A grant Proposal: **Principal Investigator (SUBMITTED)**.
- ICT Integration in Teaching and Learning STEM Subjects at High School in Kenya: PROJECT IMPACT: A grant proposal: **Researcher**
- Gender Parity in STEM in Kenya: Propelling the Kenyan Girl to Propel in STEM education: A grant Proposal: **Principal Investigator**.
- STEM Education Capacity Building in Kenya: A Collaborative and Participatory Action Research Initiative Between ...High schools and Universities: A grant Proposal: **Investigator**.

TEACHING EXPERIENCE

October, 2018- to date	Senior Lecturer, Department of Science and Mathematics Education, MMUST
June, 2013 - October, 2018	Lecturer, Department of Science and Mathematics Education, MMUST
Jan, 2011 – May, 2013	Teaching Assistant: Ball State University, USA
August 2009 – Jan 2011	Graduate Assistant: Ball State University, USA
July 2007 – August 2009	Graduate Assistant, Masinde Muliro University
1986- June, 2007	Teacher of Biology and Mathematics at Secondary School

ADMINISTRATIVE ROLES

May, 2017 - to-date	Director, International Relations and Academic Linkages
22 nd October to 6 th November, 2018	Acting Deputy Vice Chancellor, (PRI)
February, 2015 – May, 2017	Chairperson, Department of Science and Mathematics Education

SCHOLARLY PUBLICATIONS

1. Mukagihana, J., Nsanganwimana, F. and **Aurah, C.** (2021), “Resource-Based Instruction Data Collected from 2 Higher Learning Institutions in Rwanda”, *Mendeley Data*, V1, doi: 10.17632/bpfb5sdmyg.1
2. Mukagihana, J.¹, Nsanganwimana, F.², **Aurah, C.M.**³, (2020). Biology Instructional Resources Availability and Extent of their Utilization in Teaching Pre-Service Biology Teachers *African Journal of Educational Studies in Mathematics and Sciences* Vol. 16, No. 2, 2020 <http://creativecommons.org/licenses/by-nc-nd/4.0>. DOI: <https://dx.doi.org/10.4314/ajesms.v16i.2.3>
3. Masinde J. W., **Aurah, C.**, and Wanjala, M. (2020). Effect of Software-Oriented Concept Mapping On Kenyan Students' Achievement in Electrochemistry. *International Journal of Education and Social Science Research*. ISSN 2581-5148
4. Mulavu W.G., and **Aurah, C.**, (2019). Motivation as a predictor of Science Academic Achievement among Secondary School Chemistry Students' in Vihiga County, Kenya. *International Journal of Development Research* 9(10) 30216-30220
5. Wesonga, F & **Aurah, C.** (2019): Influence Of Teachers' Instructional Strategies And Students' Learning Styles On Academic Achievement In Kenyan High School Physics. *European Journal of Education Studies* Vol. 6 (8)

6. Nanyama E.Mabele, Bota N. Kennedy & **Aurah M. Catherine** (2019). Inclusive Education in Kenya: Within Kenyan Elementary Schools and teacher preparedness. *International journal of social Sciences and Humanities Research* Vol 7, Issue 3 pp(442-454)
7. Nanyama E. Mabele, Bota N. Kennedy & **Aurah C. Muhonja** (2019). Teaching strategies, learning and Teaching materials used by teachers in Kenyan Inclusive schools. *Sapiens Journal of Modern Education* Vol 1: Issue 2pp(28-48).
8. Wesonga, F. M & **Aurah, C.M.**(2019): Instructional Strategies and Learning Styles as Predictors of High School students' Academic Performance in Physics Practicals in Kenya. *Proceeding of the 2nd International Conference on Future of Education*, Vol. 2, Issue 1,2019, pp. 1-11 Copyright © 2019 TIIKM
ISSN 2630-7413 onlineDOI:
<https://doi.org/10.17501/26307413.2019.2101>
9. Mwelese J., **Aurah, C.,**& Wanjala, M.,(2018).Teachers' Attitude toward Mathematics Classroom Discourse in Secondary Schools in Vihiga County, Kenya. *International Journal of Scientific Research and Management (IJSRM)* . Volume 06 Issue 09. Pages M-2018-97-110
Website: www.ijssrm.in
ISSN (e): 2321-3418 Index Copernicus value (2015): 57.47, (2016):93.67,
DOI: 10.18535/ijssrm/v6i9.m02
10. Mwelese,J., Wanjala, M.S.M., & **Aurah, C. M.** (2018). Strategies Employed by Mathematics Teachers in Engaging Students in Classroom Discourse. *Journal Of Education & Entrepreneurship* ISSN: 2636-4794 (Print), ISSN: 2636-4778 (Online) Vol. 5, N0.3, 90-103; 2018. <https://doi.org/10.26762/jee.2018.400024>
11. Masinde, J.W., **Aurah, C.M.,** & Wanjala, M.S.M. (2018). The Effect of Software-Oriented Concept Mapping on Kenyan Students' Achievement in Electrochemistry.*Journal of Arts, Humanities and Social Sciences.*
12. Nanyama Elizabeth Mabele, Achoka, JSK& **Aurah Catherine Muhonja** (2017). Stakeholders Strategies to Combat Teenage Mothers pregnancies in Basic Education Cycle in Kenya. *Global Journal of research and social Sciences.* Vol. 22, Issue 1 ISSN: 2279- 0845.
13. Sirima N.L. & Aurah, C.M. (2017). Family Type and Participation of Pupils' in Special Units in Public Primary Schools in Kakamega County, Kenya. *IOSR Journal of Research & Method in Education (IOSR-JRME)* e-ISSN: 2320–7388,p-ISSN: 2320–737X Volume 7, Issue 4 Ver. III Jul - Aug 2017), PP 81-87 www.iosrjournals.org
14. Naibei, E. C. Shikuku, B. N. & **Aurah. C. M.** (2017). Mathematics Teacher's Preparedness and Their Effect on Learner Acquisition of Basic Operational Skills in Kakamega Central Primary Schools, Kenya. *Journal of Education, Society and Behavioural Science.* 22(1): 1-7, 2017; Article no.JESBS.35369
15. **Aurah, C. M.** (2017). Investigating the Relationship between Science Self-efficacy Beliefs, Gender, and Academic Achievement, among High School Students in Kenya. *Journal of Education and Practice*, ISSN (Paper)2222-1735 ISSN (Online)2222-288X
16. Audi O., Sika, J., & **Aurah, C. M.** (2016). Assessment of Achievements in Adult Literacy Programme in Vihiga County, Kenya. *Greener Journal of Educational Research.* ISSN: 2276-7789 ICV: 6.05.i
DOI: <http://doi.org/10.15580/GJER.2016.5.072716125>
17. Kwalia C.K., **Aurah C.** & Amadalo M. (2016). Composite Instructional Method and Its Effect on Secondary School Students' Academic Achievement in Fluid Flow Physics in Mt

18. Nabie A. & **Aurah C.** (2016). Integrating National and International Security Education into the School Curriculum, Western Region. *Journal of Education and Social Sciences. Issue 3, Vol.1*
19. Wanjala, M.S., **Aurah, C. M.**, & Koros C. S. (2015). Pedagogical Factors Affecting Integration of Computers in Mathematics Instruction in Secondary Schools in Kenya. *Journal of Education and Practice* (In Press) ISSN (Paper)2222-1735 ISSN (Online)2222-288X.
20. Ouko, S., **Aurah, C.**, & Amadalo, M. (2015). Peer Instruction and Secondary School Students Achievement in Vectors. *Journal of Education and Practice* Vol.6, No.27. ISSN 2222-1735 (Paper) ISSN 2222-288X (Online)
21. Ouko, S. A., & **Aurah, C.** (2015). Peer Instruction and Secondary School Students Attitudes Towards Vectors in Bungoma County; Kenya *International Journal of Advanced Research. Volume 3, Issue 10* , 670 - 673. ISSN 2320-5407 <http://www.journalijar.com>
22. **Aurah, C. M.**; Cassady, J.C.; & McConnell, T. J. (2014). Genetics problem solving in high school testing in Kenya: Effects of metacognitive prompting during testing. *Electronic Journal of Science Education* Vol. 18, No. 8 (2014)
23. Ong'unya R.O., **Aurah, C.M.**, Nabwire, J.L., & Songok, J.R. (2014). The Plastic Waste Menace in Kenya: A Nairobi City Situation. *International Journal of Current Research* Vol. 6, Issue, 04, pp.6175-6179.
24. **Aurah, C. M.** (2014). Exploring the Academic Experiences Of African International Graduate Students in a Midwestern University In United States of America: A Phenomenological Study. *African Educational Research Journal* Volume (2)1 35-42
25. **Aurah, C. M.**, Cassady, J. C., & McConnell, T.J. (2014). Predicting Problem Solving Ability From Metacognition and Self-Efficacy Beliefs on a Cross Validated Sample. *British Journal of Education* Vol.2.No.1, pp. 49-72. Published by European Centre for Research Training and Development UK (www.ea-journals.org)
26. **Aurah, C. M.**, & McConnell, T.J. (2014). "Comparative Study On Pre-Service Science Teachers' Self-Efficacy Beliefs Of Teaching In Kenya And The United States of America; USA." *American Journal Of Educational Research* 2.4 . 233-239.
27. **Aurah, C. M.** (2013). *The Influence of Self-Efficacy Beliefs and Metacognitive Prompting on Genetics Problem Solving Ability among High School Students in Kenya*. ProQuest Dissertations And Theses; Thesis (Ed.D.)--Ball State University, 2013.; Publication Number: AAT 3561709; ISBN: 9781303089442; Source: Dissertation Abstracts. International, Vol: 74-09(E), Section: A.; 247 p.
28. **Aurah, C. M.**, (2013). Assessment of Extent to which Plastic Bag Waste management Methods Used in Nairobi City Promote Sustainability. *American Journal of Environmental Protection. 1 (4)* 96-101. doi: 10.1269/env-1-4-4
29. **Aurah, C. M.**, (2013). The Effects of Self-efficacy Beliefs and Metacognition on Academic Performance: A Mixed Method Study. *American Journal of Educational Research. 1(8)*, 334-343. doi: 10.12691/education-1-8-11
30. **Aurah, CM**, Koloi-Keaikitse, S, Isaacs, C, Finch, H, (2011). The Role of in Everyday Problem Solving Among Primary Students In Kenya. *Problems of Education in the 21st Century.* 30 (1) 9-21 <http://journals.indexcopernicus.com/abstracted.php?level=5&icid=943466>

SERVICE TO THE FIELD OF EDUCATION

a. Proposal and Thesis Supervision

GRADUATED

MASTERS

1. Kwalia Cornelius Kibet (2014). Composite Instructional Method And Its Effect On Secondary School Students' Academic Achievement In Fluid Flow Physics In Mt. Elgon Sub-County, Kenya (GRADUATED: DEC. 2016)
2. Lornah Sirma: PhD Thesis entitled: Home Based Factors Affecting Participation of Pupils in Special Units in Public Primary Schools In Kakamega County, Kenya (GRADUATED, 2017)
3. Peter Kelonye Sogoni (2015/16). MSC. Thesis Entitled: "Secondary School Students' Performance in Kinematics Using Cooperative Learning in Sabatia Sub- County, Kenya"(GRADUATED DEC 2017)

PhD

1. Susan Ouko: PhD Thesis entitled: Peer Instruction and Secondary School Students' Performance in Vectors (GRADUATED, DEC 2016)
2. Masinde Joseph Wangila (2016). Phd Proposal Entitled: "Software-Oriented Concept Mapping: A Metacognitive Strategy In Students' Learning of Electrochemistry Among Secondary Schools in Kakamega County, Kenya (**Graduated in December, 2018**)
3. Mwelese Jackson : Influence Of Teacher Related Factors In Dialogic Instruction And Its Promotion Of Mathematics Classroom Discourse in Secondary Schools In Vihiga County, Kenya (**Graduated in December, 2018**)
4. Mulavu Wycliffe (2019). Effects Of Multiple Instructional Approaches On Secondary School Students' Learning Outcomes In Chemistry In Vihiga County, Kenya (**Graduated in December, 2019**)
5. Elizabeth Nanyama : PhD. Thesis Entitled: Effectiveness in Implementing Inclusive Education Policy on Learners' Academic Achievement in Inclusive Public Primary Schools in Kakamega County, Kenya (**Graduated in December, 2019**)
6. Wesonga Fanuel: PhD Thesis Entitled: Influence Of Teachers' Instructional Strategies And Students' Learning Styles On Performance Of Physics Practicals In Navakholo Sub-County, Kenya (**Graduated: December, 2020**)

TO GRADUATE

1. Peter Audi Oluoch: PhD Thesis Entitled: The Implementation of Adult Literacy Programme and its Impact on Enhancing Environmental Development And Management in Vihiga County, Kenya (Kisii University)
2. Protus Wanjala (2017). Influence Of SMASSE Inset On Students' Achievement in Mathematics In Public Secondary Schools in Baringo North Sub-County, Baringo County
3. MUKAGIHANA Josiane (2018). Effect of Resource-Based Instruction on Learning outcomes of Pre-Service Biology Teachers in Education-based Universities in Rwanda
4. Josephat Paul Nkaizirwa (2018). Effect of Inquiry-Based Learning on Environmental Education Knowledge and Attitudes among Pre-Service Biology Teachers in Tanzania: RWANDA
- 5.

WORK IN PROGRESS

7. Wati Henry (2017). Effects Of Computer Algebra Systems On Mathematics Achievement, Attitude And Motivation: A Case Of Tivet Public Institutions In Western Kenya Region

8. Ochola, Alphayo (2017). Computer Practical Workbench Application in Teaching Form Three Physics and its Influence On Student Performance in Nairobi County-Kenya
9. Abisaki Oloo (2016). Phd Thesis Entitled: Towards Implementation of a Viable Non-Formal Curriculum in Secondary School Education in Kenya
10. Khalayi Juliet Musungu (2016) MSC. Thesis Entitled: "Students' Misconceptions on Selected Kinematics Contexts In Physics Among Secondary School Students in Mumias Sub- County, Kenya"
11. Isabella Monchire (2015). Phd Thesis Entitled: ' Influence Of Students' Learning Styles, Achievement Motivation And Attitude On Performance On The Mole In Chemistry In Nakuru County Kenya'
12. Faith Mutange: Master's Proposal entitled: Assessment of Biology Teachers' Beliefs about Inquiry-Based Instruction.
13. Henry Olonje: Phd Proposal Entitled: Influence of Formative Assessment Practices on Student Academic Achievement in Public Secondary Schools in Siaya County, Kenya (Kisii University)
14. Rebecca Ayiti: Master's Proposal entitled: Practical Work and its Influence on Secondary School Students' Performance in Learning of Mole Concept in Chemistry

b. Thesis Examination

1. Anselme UWIMANA (2019). Assessment Of Artisanal Gold Mining Effect On Basic Education In Burera District
2. Bernadette NIKUZE (2019).The Role Of Environmental Education In Schools And Gold Miners' Awareness Of Environmental And Health Risks In Burera District
3. Polycarp Muchesia Ishenyi (2019): PhD: Teachers' Technological, Pedagogical, Content Knowledge And Classroom Discourse: Effects on Achievement in Mathematics Among Secondary School Students In Kakamega County
4. Lisamula Ackap (2017). Students' And Teachers' Perceptions Of Physics Practical Work In Secondary Schools In Kakamega East Sub-County, Kenya"
5. Munyerere Florence (2017). Influence Of Smasse Inservice Training On Secondary School Biology Teachers' Instructional Preactices In Kakamega North Sub-County, Kenya
6. Mbalilwa Michael (2016). Availability And Use If Instructional Resources And Its Influence On Performance In Mathematics In Secondary Schools Of Kakamega Central Sub-County, Kenya"
7. Nabie Alice (2016) M.Sc. Thesis Entitled "Mind Mapping Technique and Its Effects on Achievement In Ecology Concepts Among Secondary School Students in Hamisi Sub-County, Kenya"
8. Alphayo Abacha Ochola (2015)MSc.: Thesis Entitled "Physics Practical Work And Its Influence on Students' achievement, Attitude Change and Skills Acquisition in Form Two" MMUST
9. Monica Khasandi Mulongo (2015): MSc: Thesis Entitled "Integrating Micro Electricity Kits in Learning Secondary School Electricity" MMUST
10. Noah Wafula Wekesa (2015): MSc: Thesis Entitled "Project Based Learning On Students' Performance in the Concept of Classification of Organisms among Secondary Schools in Kenya"MMUST
11. John Ongwane Omaset (2015): Thesis Entitled "Teacher-Related Determinants For Effective Integration of Computer-Based Instruction in Biology in Teso South Sub-County, Kenya" MMUST
12. Antony Sifuna Bwasi (2015): MSc: Strengthening Mathematics And Science In Education Program And its Implementations In Teaching of Biology Among Secondary Schools in Kenya: MMUST
13. Fanuel M.M. Wesonga (2014): MSc: Thesis Entitled "Integrating Micro Science Kits in Secondary School Physics Experiments" MMUST
14. Bernard Justus Wekullo (2014). M.Sc. Thesis Entitled "Computer Programmed Instruction on Students' Mathematics Performance in Kenyan Public Secondary Schools": Internal Examiner; MMUST

15. Amos Jackson Kosasia (2014) M.Sc. Thesis Entitled "Determinants Of High School Students' Learning of Evolution in Kakamega Central District, Kenya": Internal Examiner; MMUST
16. Masinde Joseph Wangila M.Sc. (2014): Thesis Entitled "Programmed Instruction on Students' Performance in Structure of The Atom and the Periodic Table among Secondary Schools In Kenya": Internal Examiner, MMUST
17. Walter Gogo Odanya (2014). Ph.D. Thesis Entitled "Influence Of Cooperative Learning Instruction On Secondary School Students' Achievement and Self-Concept in Mathematics": Internal Examiner; MMUST
18. Ruth Nanjekho Wafubwa (2014), MSc. Thesis Entitled " The Implementation of Strengthening of mathematics and Science Education Project in the Teaching and Learning of Mathematics in Public Secondary Schools of Rangwe Division, HomaBay County- Kenya": External Examiner: Kisii University
19. Electine Mbatia (2013) M.Sc. Thesis Entitled "Factors Affecting Secondary School Students' Performance In Biology in Mumias District, Kenya": Internal Examiner; MMUST

c. Conferences/Workshops/Seminars Organised

1. STEM EDUCATION INTERNATIONAL CONFERENCE (STEMEIC2020) Hosted virtually by MMUST: 25th-27th November, 2020
2. STEM EDUCATION INTERNATIONAL CONFERENCE (STEMEIC2021) Hosted virtually by MMUST: WORK IN PROGRESS 17th-19th November, 2020

d. Promotions

- October, 2018: Promotion from Lecturer to Senior Lecturer
- September, 2013: Promotion from assistant Lecturer to Lecturer
- December, 2011: From Graduate Assistant to Assistant Lecturer

e. Responsibilities at MMUST

Area	Date	Responsibility
1.	28th February, 2019	▪ Focal Point person, Inter-University Council of East Africa (IUCEA)
2.	19 th July, 2018	▪ Chairperson: Session WCTE
3.	24 th May, 2018	▪ Chairperson, Public Speakers and Event Movers Committee
4.	30 th March, 2018	▪ Deputy Chairperson: MMUST Webometrics Advisory Committee
5.	15 th January, 2018	▪ Member of Scientific Committee: PAIRC
6.	15 th January, 2018	▪ Chairperson, Logistics Sub-committee: WCTE
7.	4th December, 2017	▪ Member, Solace Board
8.	13 th November, 2017	▪ Thesis Internal Examiner
9.	3 rd November, 2017	▪ Member of DIAL BOARD
10.	5 th October, 2017	▪ Chairperson, BodyFlex GYM Steering Committee
11.	3 rd October, 2017	▪ Reviewer of Congress Abstracts
12.	30 th August, 2017	▪ Member, Strategic and Institutional Planning Committee
13.	1 st August, 2017	▪ Member of Board of Postgraduate Studies
14.	9 th March, 2017	▪ Convenor, Committee of DIAL
15.	26 th May, 2016	▪ Member, FESS Student Handbook Committee
16.	January, 2016	▪ Member, TVET Board
17.	1 st July 2015	▪ Chairperson, MMUST National Cohesion and Values

Mainstreaming Committee

- 18. 2014 ■ Patron: International Students Organisation, MMUST
- 19. 2014 ■ Member: Capacity Building on Grant Proposal Writing Committee
- 20. 2014 ■ Member: Research, Extension, and Linkages (REL) Committee

f. Responsibilities Outside MMUST

Area	Date	Responsibility
Diversity Education Institute, USA	July, 2020	Board of Directors Member
South-South Triangular Education Consortium (SSTEC)	May, 2020	Vice President
University of Rwanda, College of Education, School of Education: Centre for Postgraduate Studies	August, 2019	External Examiner, Masters Programmes
Centre for Mathematics, science and Technology Education in Africa (CEMESTE)	June, 2019	Paper reviewer: Journal of Mathematics, Science and Technology Education (JOMSTE)
Inter-University Council of East Africa	February, 2019	IUCEA Focal Point Person
University of Rwanda, College of Education	October, 2018	External Programme Advisor: PhD in Mathematics and Science Education
University of Rwanda, College of Education	May, 2018	Staff Exchange: Post Graduate Mentoring
a) MOEST	Oct. 2015	Member, BOM, St. Luke's Shisango Girls Secondary School
b) MOEST	Dec. 2015	Member, BOM: Shikomere Girls' Secondary School
c) MOEST	Dec. 2015	Chairperson, BOM, Chebunaywa S.A. Secondary School
d) EUROPEAN Journal	March, 2014	Member, European Centre for Research Training and Development UK

g. Journal Article Reviews:

1. Manuscript Number: EJMSTE-00535-2016-01: The Development of Social Learning Model Based on Metacognitive Strategies to Foster Mathematics Self-Efficacy of Senior High School Students
2. Manuscript Number: IJAPR-13-101: An Analysis of the Household Solid Waste Generation Patterns and Prevailing Management Practices in Eldoret Town, Kenya. *International Journal of Agricultural Policy and Research*. 08-11-2013
3. Manuscript Number: IJEPRR-13-007 “A Study Of Emotional Intelligence And Academic Achievement Of Secondary School Student In District Ganderbal- Kashmir.” *International Journal of Educational Policy Research and Review*. <http://www.journalissues.org/journals-home.php?id=7>: 25-02-2014 I
4. Manuscript Number: IRJPEH-14-009. “Landfill site and its effects on the people of Gbalahi community in the Tamale Metropolis” *International Research Journal of Public and Environmental Health*. <http://www.journalissues.org/journals-home.php?id=9>:: 23-01-2014 *Educational Policy Research and Review*
5. Corporal Punishment as a Parental Practice and Anxiety in Middle Childhood Children *Journal of Social Science Studies* <http://jsss.macrothink.org> December, 2013

6. Preservice Teachers' Identity Discourse Involved in Their Science Learning Narratives and Science Teaching Philosophy Statements. *Journal of Social Science Studies* <http://jsss.macrothink.org>
7. Manuscript Number: ERJ-17-0011: "School management and sustainable quality of primary education in Ekiti State. *Educational Research Journal*. March, 2017

h. Funds Attracted

- September-October, 2020: PROenwek- DAAD: Euros 1819: **Aurah, C.M. (CO-PI)**
- Joseph Wangila Masinde (PI); **Aurah, C.M. (CO-PI)**: National Research Fund: Kshs: 640
Title of Proposal: "Software-Oriented Concept Mapping: A Metacognitive Strategy In Students' Learning of Electrochemistry Among Secondary Schools in Kakamega County, Kenya"
Amount: Kshs. 639,00
- Susan Ouko (PI) ; **Aurah, C.M. (CO-PI)**:NARCOSTI
Title of Proposal: Peer Instruction and Secondary School Students' Performance in Vectors
Amount Awarded: Kshs. 600,000
- Fanuel Wesonga (PI); **Aurah, C.M. (CO-PI)** : (University Research Fund)
Title: Influence Of Teachers' Instructional Strategies And Students' Learning Styles On Performance Of Physics Practicals In Navakholo Sub-County, Kenya: Kshs. 200,00
- Wycliffe Mulavu (PI); **Aurah, C.M. (CO-PI)**: University Research Fund
Title: Effects Of Multiple Instructional Approaches On Secondary School Students' Learning Outcomes In Chemistry In Vihiga County, Kenya: Kshs. 200,000
- Elizabeth Nanyama Mabele (PI); **Aurah, C.M. (CO-PI)**: University Research Fund
Title: Effectiveness Of Implementing Inclusive Education Policy On Learners' Academic Performance In Public Primary Schools In Kakamega County, Kenya: Kshs. 200,000

Grants Applied for (Yet to be Funded):

1. GENDER PARITY IN STEM: PEDAGOGICAL INTEGRATION OF TECHNOOOGY IN STEM EDUCATION TO ENSURE RESILIENCE, QUALITY, EQUITY AND SUSTAINABILITY DURING AND POST COVID-19 (GEPSTEMIK)" PROJECT:

- Submitted to SPENCER FOUNDATION ON 4/2/2021

PI: Dr. Aurah Catherine

CO-PIs: Dr. Orado Grace (CEMASTEAM) & Dr. Robert Kati (Kibabii University)

2. GENDER ANALYSIS AND INCLUSION IN RESEARCH: A FOCUS ON INSTITUTIONAL TRANSFORMATIONS THAT STRENGTHEN WOMEN LEADERSHIP THROUGH STEA+M EDUCATION AND POLICY

- Submitted to IDRC on 22/4/2021: NOT SUCCESSFUL

PI: Dr Aurah, Catherine

CO-PIs: Dr. Edwige Kampire (University of Rwanda), Dr. Sell Kimosop (MMUST); Dr. Chikondi Shaba (University of Malawi and Prof. Catherine Ndungo (Kenyatta University)

i. Conferences/Symposia/Workshops/Webinars Attended:

1. November, 25th - 27th, 2020: STEM EDUCATION INTERNATIONAL CONFERENCE (STEMEIC2020)
2. October, 29th-30th, 2020: 3RD FUTURE OF EDUCATION CONFERENCE: VIRTUAL: MALAYSIA
3. October-November, 2020: UR-CE; ACEITLMS SUPERVISORS' SERIES OF VIRTUAL WEBINARS
4. October-November: National Cohesion and Mainstreaming Webinars
5. September 4th, 2020: Education Virtual Conference(EVC2020): Sri Lanka
6. September/October, 2019: Brandenburg University of Applied Sciences, Germany: Practice-Oriented Education Exchange Programme
7. June, 2019: 2nd Future of Education International Conference, 2019: Bangkok, Thailand
8. November, 2018: 5th International STEM in Education Conference 2018, Brisbane, Australia
9. October, 2018: Risk Management Training at MCU MMUST

10. 5th-8th June, 2018: Building a Culture of Peace and Non-Violence Conference at Bishop Stam
11. 10th-24th May, 2018: Postgraduate Supervision and Staff Exchange: University of Rwanda
12. April 26th- 2ndMay, 2018: 5th International Conference On Education In Mathematics, Science And Technology (ICEMST), TURKEY;MARMARIS
13. 10th - 15th April, 2018: FK Norway Partners' Training: Kampala, UGANDA
14. 21st - 23rd December, 2017: NMT-DIES Deans Training at Karatina University
15. October, 2017: African Network Internationalisation of Education: Rwanda, Kigali
16. 26th-28th October, 2016: Harnessing Research, Innovation and Technology to Realise the Sustainable development Goals: CHUKA University
17. December, 2016: CEMESTEA: KCB Training Institute; Karen, Kenya
18. August, 2016: ISO at Bishop Stam
19. August, 2016: National Cohesion & National values for Focal Point Persons at Kisumu Hotel
20. May, 2016: National Cohesion and Values Sensitisation Workshop - Kisumu Hotel
21. November, 2015: Performance Contracting at MMUST
22. November, 2015: Performance Contract Negotiation & vetting at MMUST
23. October, 2015: Grant Proposal Writing at Bishop Stam
24. June, 2015: Grant Writing & resource mobilization at Busia Agricultural center
25. May, 2015: Deans; Directors; Coordinators; and COD Induction Workshop at Bishop Stam
26. March, 2014: FESS Stakeholder Workshop on Curriculum Review, Development and Implementation at MMUST
27. January, 2014: University Multiplication Training Workshop on Curriculum Development and Review for Public Universities in Kenya: Implementation and Accreditation at MMUST
28. April, 2008: Gender Sensitisation Workshop at Savona Isle Resort
29. 2013: HASTI Conference: Indianapolis, Indiana, USA
30. 2012: Annual Sigma XI Conference: Ball State Chapter
31. 2012: NARST Conference
32. 2011 Annual Mid-Western Psychological Association (MPA) Conference in Chicago: Promoting Children's Environmental Attitudes, behaviors, and Efficacy
33. 2011 BSU Annual Student Symposium Promoting Children's Environmental Attitudes, behaviors, and Efficacy
34. Conference 2010 (SIRAS in Kentucky) Paper Presentation
35. BSU 2010 Student Symposium: Sustainability of Plastic Bag Waste Management Methods in Kenya

k. Membership to Professional Bodies

Member: The African Network for Internationalization of Education (*ANIE*)

Member: AWSE: African Women in Science Education

Member: HASTI: Hossier Association of Science Teachers, Indiana, USA

l. Membership to Organizations/Associations/Societies

- Kakamega Sports Club
- Kakamega Rotary Club
- Soroptimist International: Vihiga Club
- Sigma XI: Ball State University Chapter
- SIERRA Club: USA

SKILLS AND ABILITIES

Computer: Microsoft Office Word; Microsoft Office Powerpoint; Microsoft Office Excel; Microsoft Office Publishers

SPSS: Data Analysis: Descriptives; Correlations, t-tests; ANOVA Family; ANCOVA; MANOVA, MANCOVA; REGRESSIONS: Simple Linear Regression; Multiple Linear Regression (Simultaneous and Hierarchical), Factor Analysis; and Discriminant Data Analysis

Referees

1. Prof. William W. Toili

Masinde Muliro University of Science & Technology

P. O. Box 190, KAKAMEGA

Tel: 0718504614

2. Prof. Maurice M. Amadalo
Deputy Principal (Admin. & Finance)
Kaimosi Friends University College
P. O. Private Bag
Kaimosi
Tel: 0722621542

3. Prof. Tom J. McConnell
Associate Professor: Ball State University
2000 W. University Ave
Muncie, IN
47306
USA

Signed:



Dr. Aurah, Catherine M.
13th January, 2021