

CURRICULUM VITAE
PROF. SOLOMON IGOSANGWA SHIBAIRO
BSc, MSc, PhD, MKNAS
DEPUTY VICE CHANCELLOR
(ACADEMICS AND STUDENTS AFFAIRS)
KIBABII UNIVERSITY
P.O. BOX 1699-50200,
BUNGOMA, NAIROBI, KENYA
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solomonshibairo@yahoo.com

1. PERSONAL INFORMATION.

1. **NAME:** Prof. Solomon Igosangwa Shibairo
2. **DATE OF BIRTH:** October 17, 1960
3. **GENDER :** Male
4. **MARRITAL STATUS** Married with five children
5. **PLACE OF BIRTH** Kimaran Village, Vihiga County in Kenya.
6. **SPOKEN & WRITTEN LANGUAGES** English, Kiswahili and Kiluhya (mother tongue)
7. **NATIONALITY:** Kenyan
8. **FAITH** Christian- Elder at Christ's Co-Workers Fellowship in Charge of the Men's Ministry and the Marrieds Fellowship.
9. **ADDRESSES**
 - a. **Home Address:** Maisonettes Hse No. 1.
Laikipia Road No. 17, University House No. 1, Kileleshwa, Nairobi
Home Phone: +254 733240739
Home Email: solomonshibairo@yahoo.com, sshibairo@gmail.com
 - b. **Work Address:** Kibabii University
P.O. Box 1699-50200
Bungoma, Kenya
Work Phone: 020-2028660/0708
Cell Phone: 0721 683509/0733 240739
Work Email: sshibairo@kibu.ac.ke, sshibairo@gmail.com

2. ACADEMIC QUALIFICATIONS

- | | | |
|----|------------------------------|---|
| a. | Qualification & Year Awarded | PhD (Plant Science). 1996 |
| | Institution & Country | University of British Columbia, Canada |
| b. | Qualification & Year Awarded | MSc. (Agronomy). 1989 |
| | Institution & Country | The university of Nairobi, Kenya |
| c. | Qualification & Year Awarded | BSc (Agriculture). 1985 |
| | Institution & Country | The University of Nairobi, Kenya |
| d. | Qualification & Year Awarded | Kenya Advanced Certificate Education. 1980 |
| | Institution & Country | Kericho High School. Kenya |
| e. | Qualification & Year Awarded | East African Certificate of Education. 1978 |
| | Institution & Country | Kemeloi High School. Kenya |
| f. | Qualification & Year Awarded | Certificate of Primary Education. 1974 |
| | Institution & Country | Tinderet Primary School. Kenya |

3. SHORT COURSES/TRAININGS

- | | | |
|---|--------------------------|---|
| 1 | Name of training & Dates | ISO 9001:2015 Quality Management System Process Owners' Training Course, 3 rd to 5 th October, 2017 |
| | Institution & Country | Maier Consulting Limited |
| 2 | Name of training & Dates | Enterprise Risk management Training, 23 rd – 24 th May 2017 |
| | Institution & Country | Pinebridge |
| 3 | Name of training & Dates | Job Analysis, 4 th to 5 th April, 2017 |
| | Institution & Country | Pricewaterhouse Coopers |
| 4 | Name of training & Dates | Grant proposal Writing Workshop, 6 th to 8 th , 2017 |
| | Institution & Country | African Population and Health Research Center |
| 5 | Name of training & Dates | In House – Training in Pre-CBA Negotiation Skills for Kibabii University, 15 May, 2016 |

	Institution & Country	Federation of Kenya Employers
6	Name of training & Dates	Corruption Prevention Training Workshop, 21-22 nd October, 2015
	Institution & Country	Kibabii University College
7	Name of training & Dates	Training on Quality Management Systems Based on ISO 9001:2008, 11-17 th September, 2015
	Institution & Country	Kibabii University College
8	Name of training & Dates	A two-day Pedagogical Skills Training Workshop, July 27-28, 2015
	Institution & Country	Kibabii University College, Kenya
9	Name of training & Dates	Five – day Corporate Governance Training Course for Directors, August 24-28, 2015
	Institution & Country	CENTRE FOR CORPORATE GOVERNANCE, Kenya
10	Name of training & Dates	ICT Champions Training, June 5 th , 2015
	Institution & Country	deepAfrica Company Limited
11	Name of training & Dates	Computer Systems & Applications Packages
	Institution & Country	Dominion Training Institute, 27 March 2015
12	Name of training & Dates	Implementers Training on Quality Management Systems based on ISO 9001:2008
	Institution & Country	ALPEX CONSULTING AFRICA LIMITED
13	Name of training & Dates	Corporate Governance Training Course, 15-16, May 2014
	Institution & Country	CENTRE FOR CORPORATE GOVERNANCE, Kenya
14	Name of training & Dates	Transformational Leadership, 16 – 18 November 2012
	Institution & Country	EMPOWERment™ RESOURCE TECHNOLOGIES LTD
15	Name of training & Dates	Research Administration and Grants Management, 5- 9 th November, 2012
	Institution & Country	<i>Eunice Kennedy Shiver</i> National Institute of Child Health and U.S. President's Emergency Plan for AIDS Relief
16	Name of training & Dates	Scientific Writing Training Workshop, 3 – 4 th November, 2012
	Institution & Country	National Cancer Institute (NCI), NIH and World Health Organization (WHO)
17	Name of training & Dates	China-Kenya Forum on the Collaboration in Dryland Agriculture 31 August – 3 September, 2012

	Institution & Country	Lanzhou University, China
18	Name of training & Dates	Performance Enhancement, 28 – 29 th July 2012
	Institution & Country	EMPOWERment™ RESOURCE TECHNOLOGIES LTD
19	Name of training & Dates	Transformational Leadership, 12 – 14 January 2012
	Institution & Country	EMPOWERment™ RESOURCE TECHNOLOGIES LTD
20	Name of training & Dates	PhD Supervision Training, March 25, 2011
	Institution & Country	PREPARE-PHD PROJECT. The university of Nairobi
21	Name of training & Dates	Transformational Leadership, 13 – 15 January 2011
	Institution & Country	EMPOWERment™ RESOURCE TECHNOLOGIES LTD
22	Name of training & Dates	Transformational Leadership, 5 – 7 th March 2009
	Institution & Country	EMPOWERment™ RESOURCE TECHNOLOGIES LTD
23	Name of training & Dates	Phytosanitary Re-tooling, 14-15 September, 2009, at Nakuru, Kenya
	Institution & Country	Centre of Phytosanitary Excellence, Eastern Africa.
24	Name of training & Dates	Pedagogy training workshop held at Central Catering Unit. 2008
	Institution & Country	University of Nairobi, Kenya
25	Name of training & Dates	FAO regional workshop on GM Food Safety Assessment Training within Biosafety approach, 15-17 April, 2008.
	Institution & Country	FAO and Kenya Plant Health and Inspectorate Services, Nairobi, Kenya
26	Name of training & Dates	Scientific proposal writing, 19- 25 th November, 2006
	Institution & Country	ASARECA, held in Nairobi, Kenya
27	Name of training & Dates	The Advanced course on the Production, Management and Safety Standards of Horticultural Crops. 22 August – 15 September, 2005
	Institution & Country	At Nanjing Agricultural University, in China.
28	Name of training & Dates	Advanced training course on "PHOTOSYNTHESIS AND ALGAL BIOTECHNOLOGY, 12 May to 2 th June 1991
	Institution & Country	At Ben-Gurion University, The Jacob-Blaustein Institute for Desert Research, Sede-Boker Campus in Israel,

4. PROFESSIONAL /EMPLOYMENT HISTORY

- A From date – Present September 1, 2016 to Present
Current Employer Kibabii University
Current Position Deputy Vice Chancellor (Academics and Students Affairs)
Position Description Managing the Division of Academics and Students Affairs
- B From date – Present November 23, 2015 to August 31, 2016
Current Employer Kibabii University
Current Position Ag. Deputy Vice Chancellor (Academic, Research and Extension)
Position Description Managing the Division of Academics, Research and Extension
- C From date – Present July 15, 2013 to November 24, 2015
Current Employer Kibabii University College (A Constituent College of Masinde Muliro University of Science and Technology)
Current Position Deputy Principal (Academic, Research and Extension)
Position Description Managing the division of Academics, Research and Extension
- D From date – Present April 20th , 2015
Current Employer Kibabii University College (A Constituent College of Masinde Muliro University of Science and Technology) NOW KIBABII UNIVERSITY
Current Position Professor
Position Description Teaching, Research and Extension in The Department of Agriculture and Veterinary Sciences.
- E From date – date March 12, 2010 to July 15, 2013
Employer The University of Nairobi.
Position Dean, Faculty of Agriculture
Position Description Managing the academic, administrative and social issues in the Faculty of Agriculture
- F From date – date 2006 to 2015
Employer The University of Nairobi
Position Associate Professor
Position Description Teaching, Research and Extension in The Department of Plant Science and Crop Protection.
- G From date – date 2005 to 2010

	Employer	The University of Nairobi, Pant Science and Crop Protection Department
	Position	Section Head – Crop Science Section
	Position Description	Coordinating activities of Crop Section activities: Curriculum Development, Development of Strategic Plan and Income Generating Activities, drawing teaching allocations, budget and procurement schedules and authorize leave.
H	From date – date	2004 to 2005
	Employer	The University of Nairobi, Pant Science and Crop Protection Department
	Position	Head of Unit – Horticulture (Thematic Head)
	Position Description	Coordinating activities of Horticulture Unit: Curriculum Development, Development of Strategic Plan and Income Generating Activities.
I	From date – date	1997 to 2006
	Employer	The University of Nairobi
	Position	Senior Lecturer
	Position Description	Teaching, Research and Extension in The Department of plant Science and Crop Protection.
J	From date – date	1991 to 1997
	Employer	The University of Nairobi
	Position	Lecturer
	Position Description	Teaching, Research and Extension in The Department of Crop Science.
K	From date – date	1992 to 1996
	Employer	The University of British Columbia, Canada, Department of Plant Science
	Position	Research – Assistant
	Position Description	Assisting in tutorials in Biometry, Botany and Horticulture
L	From date – date	1999 to 2003
	Employer	Jomo Kenyatta University of Agriculture and Technology, in Departments of Food Science and Postharvest and of Horticulture
	Position	Part-Time Senior Lecturer

	Position Description	Teaching Postharvest Physiology and Technology
M	From date – date	1989 to 1991
	Employer	The University of Nairobi
	Position	Assistant- Lecturer
	Position Description	Teaching and Research at the Department of Crop Science
N	From date – date	1987 to 1988
	Employer	Ministry of Agriculture
	Position	Lecturer
	Position Description	Teaching Crop Science to Diploma Students
O	From date – date	July 1985 to October 1985
	Employer	Ministry of Agriculture, Keiyo-Marakwet District
	Position	District Farm Management Officer
	Position Description	Advice Farmers in farm management issues

Skills

- Corporate management
- Trainer in post graduate supervision
- Grants administration and management
- Handling computer packages of Microsoft word, Lotus 123, Excel, SAS, Systat, Genstat, PowerPoint and ERP
- Internet packages; yahoo, google, google applications
- Cloud computing (through google drive)
- Social media: face book, WhatsApp, LinkedIn, google hangouts
- Able to teach and apply biometrics
- Driver, a little mechanics.
- Soft skills : counseling men and the youth

5. MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS AND AWARDS

(A) PROFESSIONAL ORGANIZATIONS

Member of Kenya National Academy of Sciences (KNAS)

Member of The Food Science and Technology Platform of Kenya

Member of the Horticultural Society of Kenya

Member of the African Crop Science Society

Member of the Soil Science Society of East Africa

(B) AWARDS

Awarded a Ph.D Scholarship by Canadian International Development Agency (CIDA)	1991-1996
Awarded a Scholarship to complete a certificate course in Algae Biotechnology by Ministry of Foreign Affairs of the government of Israel-	1991
Awarded M.Sc. Scholarship by The University of Nairobi Kenya	1985 – 1988
Awarded B.Sc. Scholarship by ministry of Education Kenya -	1980 – 1985

(C) BOARD MEMBERSHIP

As dean of faculty of agriculture from 2010 to 2013 was board member of following organizations of University of Nairobi:

Wangari Maathai Institute for Peace and Environmental Studies (WMIPES)	2010 - 2013
University of Nairobi Institute of Tropical and Infectious Diseases (UNITID)	2010 -2013

6. WORK AND PROFESSIONAL EXPERIENCE

(A)TEACHING EXPERIENCE

AT KIBABII UNIVERSITY

COURSE	DEGREE PROGRAMME	YEARS
Survey of Plant Kingdom	BA Education	2013 to date
Fundamentals of Ecology	BA Education	2013 to date
Olericulture	BSc Agriculture and Biotechnology	2016 to date

AT THE UNIVERSITY OF NAIROBI

COURSE	DEGREE PROGRAMME	YEARS
Seed Science	M.Sc. (Agronomy and Plant Breeding)	2005- 2013
Post—Harvest Physiology and Technology	M.Sc. (Horticulture) and M.Sc. (Food Science and Technology)	2002 – 2013
Vegetable Production	B.Sc. (Agriculture)	1998- 2013
Crop Production Systems	M.Sc. Agricultural Resource Management	2005
Beverages and Medicinal plants	M.Sc. (Horticulture)	2003
Crop Physiology	M.Sc. (Horticulture, Plant Breeding and Agronomy)	1997-2002, 2005
Biometrics	M.Sc. (Plant Protection)	2000-2008
Advanced topics in field crop production	M.Sc. (Agronomy)	2002
Advanced Vegetable Production	M.Sc. (Horticulture)	1999-2004
Physiological factors affecting crop yield	B.Sc. (Agriculture)	1997-1998
Introduction to Agriculture	B.Sc.(Agricultural Engineering)	1988-1991
Industrial crop production	B.Sc. (Agriculture)	1989-1990

Crop production II: Plant propagation and production of perennial crops	B.Sc. (Agriculture)	1988-1991
Crop production I: Production of field crops	B.Sc. (Agriculture)	1988-1991

AT THE UNIVERSITY OF BRITISH COLUMBIA CANADA

COURSE	DEGREE PROGRAMME	YEARS
Biometrics	B.Sc. (Agriculture)	1991-1996
Introduction to Plant Science	B.Sc. (Agriculture)	1992-1994

AT THE JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

COURSE	DEGREE PROGRAMME	YEARS
Post harvest Physiology	B.Sc. (Horticulture)	1999-2003
Post harvest Technology	B.Sc. (Horticulture)	1999-2003
Post harvest physiology and Technology	B.Sc. (Food Science and Technology)	1999

(B) EXTERNAL EXAMINATION

University	Duration	Department
Egerton University	2002- Present	Crops, Horticulture and Soils
Jomo Kenyatta University of Agriculture and Technology	2008-2011	Horticulture
Jomo Kenyatta University of Agriculture and Technology	2011 – 2015	Land Resource Planning and Management
Maseno University	2011 to 2014	Plant Sciences

(C) UNIVERSITY ADMINISTRATIVE ACTIVITIES AND RESPONSIBILITIES IN THE DEPARTMENT, FACULTY, COLLEGE, AND UNIVERSITY

	Position	Major achievements, highlights
1.	Deputy Vice Chancellor (Academic, Research & Extension) at Kibabii University, From September 1, 2016 to Present.	<ol style="list-style-type: none"> 1. Managing the Academics and Students Affairs of the Division 2. Put in place an Academic Advisory, Counselling and Mentorship Unit 3. Developed research and outreach strategies 4. We have established many linkages with many organizations at both National and International levels. 5. Trained the local community in agriculture and in entrepreneurship

		<ol style="list-style-type: none"> 6. Led to development of several academic curricula 7. Completing the establishment of the schools of Nursing. 8. Enhanced the activities of Quality Assurance. 9. Spearheaded the establishment of Directorates of Technical and Vocational Education Training (TVET), Open Distance and electronic Learning (ODEL), and Institute of Gender and Development Studies (IGDS). 10. I was in charge of the process of leading the then College in attaining University Charter status. 11. During my short tenure the student population has more than tripled to 7500. 12. Coordinated many seminars and workshops 13. Coordinating the installation of ERP 14. Chair of many College academic board committees 15. Successfully led Faculty of Education and Social Sciences in developing modules for ODEL
2	<p>Ag. Deputy Vice Chancellor (Academic, Research & Extension) at Kibabii University, From November 23, 2015 to August 31, 2016.</p>	<ol style="list-style-type: none"> 1. Successfully coordinating research, academic & extension activities 2. Managing the Student affairs division successfully 3. Put in place an Academic Advisory, Counselling and Mentorship Unit 4. Developed research and outreach strategies 5. Led researchers in developing and winning grants 6. We have established many linkages with many organizations at both National and International levels. 7. Trained the local community in agriculture and in entrepreneurship 8. Led to development of several academic curricula

		<ol style="list-style-type: none"> 9. As Deputy Principal at KIBUCO I led in the establishment of five faculties/schools and currently working on starting the school of Nursing. 10. I am in charge of Policy Development, Performance Contracting and Webometrics 11. I was in charge of the process of leading the College in attaining University Charter status. 12. Currently leading in Development of University Statutes. 13. During my short tenure the student population has more than tripled to 6300 14. Coordinated many seminars and workshops 15. Coordinating the installation of ERP 16. Chair of many College academic board committees 17. Successfully led Faculty of Education and Social Sciences in developing modules for ODEL.
3.	Deputy Principal (Academic, Research & Extension) at Kibabii University College (A constituent College of Masinde Muliro University of Science and Technology), From July 2013 to November 22, 2015	<ol style="list-style-type: none"> 1. Successfully coordinating research, academic & extension activities 2. Managed the Student affairs division successfully 3. Developed research and outreach strategies 4. Led researchers in developing and winning grants 5. We have established many linkages with many organizations at both National and International levels. 6. Trained the local community in agriculture and in entrepreneurship 7. Led to development of several academic curricula 8. As Deputy Principal at KIBUCO I have led in the establishment of four faculties/schools and currently working on starting the school of Nursing. 9. I am in charge of Policy Development,

		<p>Performance Contracting, development of Charter and the College Statutes. I am in charge of the process of leading the college in attaining university charter status.</p> <ol style="list-style-type: none"> 10. During my short tenure the student population more than doubled to 4500 11. Coordinated many seminars and workshops 12. Coordinating the installation of ERP 13. Chair of many College academic board committees
4	Ag. Principal, College of Agriculture and Veterinary Sciences, several times; Between March 2010 to July, 2013.	<ol style="list-style-type: none"> 1. Successfully managed College affairs
5	Responsibility at college level	<ol style="list-style-type: none"> 1. Member of college management board 2. Member of college academic board 3. Member of college procurement board 4. Chairman, of the college ISO committee 5. Chair of the alcohol and drugs committee 6. Member of the anti-corruption committee. 7. Been Chairman and coordinator for activities involving students for the Faculty and College: e.g. Tree Planting and Get-Together and the forth years Leavers Dinner.
6	Dean, Faculty of Agriculture. From March 12, 2010 to July 2013.	<ol style="list-style-type: none"> 1. Successfully managed faculty affairs. 2. Responsible for academic, financial, administrative issues of over 120 teaching and 200 non-teaching staff and over 1500 students. 3. Refurbished faculty of agriculture building 4. Organized AGRO-2011- The first Biannual Conference for faculty of agriculture as a platform for disseminating information and showcasing research work faculty. 5. Introduced the first electronic journal for the faculty. 6. Organized and launched the Faculty of Agriculture Alumni chapter of the university of Nairobi

		<p>7. Development of College of Agriculture and Veterinary Sciences Strategic Plan 2008 and its revision in 2010</p> <p>8. Developing Bachelor of Science in Water Resource Management</p> <p>9. Formed committees for grant writing.</p> <p>10. Oversees the administration of research grants</p>
7	Ag. Chairman - Plant Science and Crop Protection Department. Many times from February, 1999 to 2010	1. Successfully managed the departments affairs successfully
8	Section Head of the Crop Science Section of the Department of Plant Science and Crop Protection, July 2005 to March, 2010.	<p>1. Lead Instrumental in developing B.Sc. Horticulture Course.</p> <p>2. Developed a three-month crash program and a Certificate course in skills enhancement in Floriculture and delivered on Open and Distance learning mode.</p> <p>3. Committee Member on Farm Practice Committee. 2000-2004.</p>
9	Other responsibilities at Department of Plant Science and Crop Protection	<p>1. Examination Officer of the department 1998 to 1999.</p> <p>2. Head of Horticulture Unit in Crop Science Department, 2004 to July 2005</p> <p>3. Committee member representing the Crop Science department in the Faculty of Agriculture curriculum review committee.</p> <p>4. .Development of faculty of Agriculture strategic Plan 2003 and its revision in 2010</p>
10	Responsibilities in the Region	Chairman of the Kenya Chapter of RUFORUM – KENFORUM

D) EMPLOYMENT IN THE MINISTRY OF AGRICULTURE

In charge of teaching Crop Production Course and Head of Research for Technical Assistants at Bukura Institute of Agriculture for the Ministry of Agriculture, July, 1987-September, 1988.

In charge of Farm Management issues in the Ministry of Agriculture for the whole District of Keiyo-Marakwet, July, 1985- October, 1985.

I am a member of National Task Force of Horticulture from 2012 to present.

(E) RESEARCH

Major research goal: Development of strategies to mitigate food and nutrition insecurity, malnutrition, and poverty alleviation and wealth creation among small scale farmers

(i) RESEARCH ACCOMPLISHMENTS:

- A) 2009 to 2012: Collaborated with Prof Mwang'ombe, Principal CAVS, Prof. Wahome and colleagues from Makerere University, Sokoine University and LIFE, Copen Hagen in 'Prepare PhD project'
- B) 1999 to 2003: Was the principal investigator and in collaboration with Alice Walingo and Charles Lung'aho both of KARI for the project "Use of indigenous vegetables for alleviation of malnutrition in Western Kenya". Project is sponsored by Thrasher Research Foundation of USA
- C) 1999 to 2001: Collaborated with Dr. S. Sillim and Johnson of ICRISAT to develop post harvest technologies to enable the increase in export and use of green peas of Pigeon peas.
- D) 1999 to 2001, Collaborated with Dr. Hagenimana V. in developing post harvest technologies for handling sweet potatoes.
- E) 1998 to 2002. Was the Agronomist in the project "Mumias Food Project" A **FORUM** Project sponsored by Rockefeller Foundation of USA.
- F) 1991 to 2002, collaborated with scientists **Prof. Mahesh K. Upadhyaya** of the University of British Columbia, Canada and **Dr. Peter M.A. Toivonen** of Summerland Research Center, Agriculture and Agri-Food, Canada, to develop technologies for post-harvest handling of vegetables. NSSERC
- G) Screening finger millet for production and nutrient content to improve livelihoods of small-scale farmers in drought prone areas of Eastern Province of Kenya.
- H) Evaluation of genetic diversity and health promoting bioactive compounds in *Cleome gyanandra* (Spider plant) produced under different production systems and agro-ecological conditions in Kenya
- I) Water hole monitoring for livestock early warning by FAO- CO PI

(ii) RESEARCH AREAS BEING PURSUED

- A) Development of post harvest technologies in indigenous and traditional vegetables and fruits.
- B) Carrying out research in the general area of **horticulture, crop production and crop physiology**. Currently with 4 PhD students.

(iii) RESEARCH GRANTS

- A) 2018. A grant of National Research Fund on Infrastructural Development as a co-investigator. Titled: Kibabii University Information Technology and Communication Hub. Kshs. 64, 000, 000.
- B) **2012-2016**. A grant of EAAPP as **Principal investigator and Technical PI** of the team. Cassava Post-harvest Value Addition for Improved Food and Nutrition Security and better Livelihoods in Kenya. **Ksh. 48, 000, 000**.
- C) **2012-2015**. Grant RU 2012 OG 02: **Coordinator**. Support to 3 Tanzanian MSc students under Ohio iAGRI Project. **\$66,972**.
- D) **2012 -2015**. From RUFORUM. **Co-Investigator**. Improving profitability of the Mango Value Chain through Strategies for Off-season Flower Induction, Reliable maturity Indices and Applicable

- Postharvest Technologies. **\$ 60, 000**
- E) **2011-2012. Co Pi** - Water hole monitoring for livestock early warning by FAO- **\$30,000**
- F) **2011-2015. Principal Investigator.** Screening finger millet for production and nutrient content to improve livelihoods of small-scale farmers in drought prone areas of Eastern Province of Kenya. Sponsored by RUFORUM. **\$59,930**
- G) **2011-2013. Co investigator** in programme. "Enhancing Kenya's food security in the face of climate change through increased potato productivity". Funded by National Council of Science and Technology (NCST). **Kshs 7 000 000**
- H) **2009- 2012. Co researcher** on "Prepare PhD" A project member of an EU funded EDulink project. **150 000 EUROS**
- I) **1999- 2003- Principal Investigator.** The Thrasher Research Foundation: - A grant in traditional vegetable research. **\$30, 000**
- J) **1998- 2002- Co-investigator.** The Rockefeller Foundation: - A grant in Food Security Research. **\$60, 000.**
- K) **1991-2002- Student,** Science Council of British Columbia (BC), BC Agricultural Research Council, BC Coast Vegetable Co-operative, and Natural Sciences and Engineering Research Council of Canada (NSERCC). **Canadian \$ 5 000**

COORDINATION OF WINNING GRANTS AT KIBABII UNIVERSITY COLLEGE BETWEEN 2013 TO PRESENT

- a) Micro-controlled solar devise for lighting and powering laptops for pupils in off-grid rural households. Kshs 650, 000
- b) A framework for adoption of multi-modal biometric security systems in government institutions in Kenya. Kshs 460, 000
- c) Usability for digital inclusion in e-services provision kshs 500, 000
- d) ICT electronic waste indicators for management of electronic waste in Kenya. Kshs 120, 000.

(F) SUPERVISION OF POSTGRADUATE STUDENTS.

Theses supervised and graduated.

PHD

1. Jonathan Mutonyi. 2014. Management strategies for low pH and potassium deficiency in Mumias Sugar Zone of western Kenya. **(PhD. Agronomy)**. University of Nairobi.
2. Titus Magomere. 2014. Molecular approaches in the assay of interspecific hybridization within the sorghum genus and transfer of *Sorghum bicolor* genes to weedy species (*S. Sudanese*, *S. halepense*, *S. bicolor* subsp. *verticilliflorum*) with effects on hybrid fitness and fecundity. **PhD. Plant Breeding and Biotechnology**. University of Nairobi.
3. Pauline Aluka. 2013. Farm Robusta coffee (*Coffea canephora* L.) diversity. **PH.D. Plant Breeding and Biotechnology**. University of Nairobi.
4. Charles, Lung'aho. C.M. 2011. Characterization and Conservation of Potato (*Solanum tuberosum* L.). **P. HD. Agronomy**. University of Nairobi.

5. Onyango, C.M. 2010. Pre- and Post harvest factors affecting yield and quality factors of vegetable amaranth (*Amaranthus hybridus*). **P. HD. (Plant Science)**.
6. Kihurani, A.W. 2004. Pathogens and some physical factors associated with postharvest deterioration of sweetpotato. **PH.D. Plant pathology**. University of Nairobi

MSC

7. Ivon Madegwa. 2014. Modelling the impact of climate change on growth and yield of finger millet. M.Sc. Soil Science. University of Nairobi.
8. Nyongesa Oliver 2014. Screening finger millet [*Eleusine coracana* (L.) Gaertn.] genotypes for drought adaptability and nutritional factors under different soil fertility regimes in eastern Kenya M.Sc. Agronomy. University of Nairobi.
9. Lilian A. Ouma 2014. Evaluation of maturity indices and postharvest quality attributes of mango fruits (*Mangifera indica*) produced under different agro-ecological conditions in Kenya. M.Sc. Horticulture. The University of Nairobi.
10. Mueni, P. Yumbya. 2013. Effects of 1-Methylcyclopropene (1-MCP) and active bag packaging on the postharvest shelf life and quality of purple passion fruit (*Passiflora edulis*). **M.Sc. Horticulture**. University of Nairobi.
11. Maswili, R. kamene, 2009. Assessment of Kenyan sorghum diversity using morphological characteristics and molecular techniques. M.Sc. (Horticulture). University of Nairobi.
12. Jonathan Kipng'eno, 2008. Abundance and nodulation efficiency of garden pea rhizobia in Central Kenya soils. M.Sc. (Agronomy). University of Nairobi.
13. Mwalimu, M. 2008. Development of affordable alternative methods for sprouting seed potato tubers. M.Sc. (Horticulture). University of Nairobi.
14. Gachango, E.N., 2007. Effects of storage conditions on quality and storability of seed and ware potato varieties. M.Sc. (Horticulture). University of Nairobi.
15. Obangi, S.N. 2007. The potential to improve production and quality of Kales on potassium deficient soils in Kenya through balanced fertilization. M.Sc. (Agronomy).
16. Kithusi 2004. The efficacy of biopesticides on control of red spider mites (*Tetranychus evansi*) on tomatoes. M.Sc. (Horticulture).
17. Meyo, C.A., 2004. Effects of nitrogen and phosphorus application on growth yield and leaf quality of vegetable amaranth (*Amaranthus hybridus*). M.Sc. (Horticulture).
18. Sikuku, D.N, 2004. Effect of composted farmyard manure and nitrogen fertilization on growth and yield of maize (*Zea mays L.*). M.Sc. (Agronomy).
19. Nyawenda, L. 2003. Screening local and exotic varieties of tomato (*Lycopersicon esculentum*) for tolerance to waterlogged soil. M.Sc. (Horticulture).
20. Omuolo, F.M. 2002. Effect of inorganic fertilizer and farmyard manure on growth, yield and quality of collard (*Brassica oleraceae* var *acephala*), cat's whiskers (*Cleome gyanandra*) and amaranth (*Amaranthus lividus*). M.Sc. (Horticulture).
21. Onyando, N.R. 2002. Effects of nitrogen and planting density on yield and quality of sweet potatoes. M.Sc. (Agronomy).
22. Muthoni, J. 2001. Effects of minimal rates of phosphorus and nitrogen on the establishment and productivity of the African clover cv. Mealton (*Trifolium quartinianum*).

23. Ambuko, J. 2001. Effect of benzyladenine and gibberellic acid on growth, yield and yield components and shelf life of French beans (*Phaseolus vulgaris* (L.)). M.Sc. (Horticulture).
24. Njoroge, P.K. 2001. Effects of nitrogen and phosphorus fertilization on growth and development and yield of snowpeas (*Pisum sativum* L. var. Macrocarpon). M.Sc. (Agronomy). University of Nairobi.
25. Shikuku, C.A. 2001. Effect of recharging and packaging on moisture loss and quality changes in sweet potato during short-term storage. M.Sc. (Horticulture). University of Nairobi.
26. Opiyo, A.M. 2000. Effect of nitrogen application and plant age on edible yield and quality of black nightshade (*Solanum nigrum* L.) plants. M.Sc. (Horticulture). University of Nairobi.
27. Onyango, C.M. 2000. Effects of pigeonpeas (*Cajanus cajan* (L.) Millsp) genotypes on pod and green pea yield and nutritional quality as influenced by storage conditions. M.Sc. (Horticulture). University of Nairobi.
28. Ngatia, T.M. 2000. Effect of timing of application of gibberellic acid and ethephon on growth, yield and yield components of beans (*Phaseolus vulgaris* L.). M.Sc. (Agronomy). University of Nairobi.
29. Gathungu, G.K. 2000. Effect of source, time and method of application of nitrogen on growth and yield of potato (*Solanum tuberosum* L.). M.Sc. (Agronomy). University of Nairobi.

Theses under supervision

PHD

30. Jonathan Kipng'eno. Abundance, genetic diversity and nodulation of cowpea rhizobia in south western Kenya.
31. Charity muchoki. Factors affecting levels of vitamins and anti-nutrients in fermented, solar-dried and stored African leafy vegetables.
32. Danstan A. Odeny. Physiology of coffee grown under shade
33. Christine K. Katama. Development of cassava root-leaf flakes with improved protein, minerals and vitamins.
34. Mafuta Nangila Janepher. Evaluation of *Solanum nigrum* host-plant resistance and grafting to control bacterial wilt for increased marketable yield in Kenya

MSC

35. Titus Kosgei. Analysis of grain yield stability of drought tolerant maize. M.Sc. Plant Breeding and biotechnology. University of Nairobi.
36. Jeniffer Lutomia. Effect of plant population and fertilizer on the yield of spring onions. M.Sc. Horticulture. The University of Nairobi.
37. Winnie Wanjiku Murigi. Control of ware potato quality during long term storage in the tropical conditions of Kenya.

(G) CONSULTANCIES

1998- worked with the Ministry of education to revise the Primary School Agriculture to include more practicals. The PRASSUPE- Project. GTZ of Germany sponsored the initiative.

I am the Horticulture/Agronomist specialist for the STRATEGIC CENTRE FOR AFRICA –NGO that is currently working to increase irrigation dependant Agriculture in Kenya, Ethiopia, Somalia and Tanzania.

(H) NATIONAL ACTIVITIES.

(i) For Kenya National Examination Council (K.N.E.C.).

I have been marking and moderating the technical subject Crop Production from 1988 to present. I am the Examiner in charge of other Examiners for this paper.

I am an Examiner marking the Practical paper of the subject - Crop production of the Kenya Certificate of Secondary Education (K.C.S.E.) Examinations.

(ii) Community Service Development.

- Trained over 240 women and youth in Food/Nutrition issues
- Trained 5 women groups on business sourcing and tendering
- Engaging with local community in issues of HIV/AIDs testing and management
- I am a Deacon in training at my church CHRISCO
- I am a bible study teacher.

6. **LINKAGES:** I have linkages with the following organizations

(i) **Christian**

- Linkages with the many CHRISCO branches in Africa, India, Europe and the BEULAH LAND in Virginia, USA.
- Pentecost Assemblies of God Canada, and CITAM and the Presbyterian Church in Kenya.

(ii) **Academic**

- The University of British Columbia, Canada
- Centre for Corporate Governance
- Empowerment Resource Centre
- Lanzhou university, China
- The University of Nairobi
- Kenya Plant Health Inspectorate Services
- Nanjing Agricultural University China
- Jomo Kenyatta University of Agriculture and Technology
- Egerton university
- Kenya National Academy of Science
- Canadian international Development Agency
- Kenya Seed Company Ltd
- Wangari Maathai Institute of Peace and Environmental Studies

- RUFORUM
- EAAP
- Cornell University, USA

7. PUBLICATIONS

(A) THESES

SHIBAIRO, S.I. A study of postharvest moisture loss in carrots (*Daucus carota* L.) during short-term storage. Ph.D Thesis, The University of British Columbia, Canada, 1996.

SHIBAIRO, S.I. The effect of sink-source manipulation and water stress on flower-and pod-abscission, yield and yield components of pigeon peas (*Cajanus cajan* L. millsp). M.Sc. Thesis, University of Nairobi, 1989.

(B) JOURNAL ARTICLES

1. Chemining'wa, G. N., Ngeno, J. K., Hutchinson, M. J. and **S. I. Shibairo**. 2018. Influence of P Fertiliser on Nodulation, Growth and Nutrient Content of Cowpea (*Vigna unguiculata* L.) in Acidic Soils of South Western Kenya. *International Journal of Plant & Soil Science* **25(3)**: 1-12.
2. Madegwa, Y., Onwonga, R., **Shibairo, S.**, and G. Karuku. 2016. Farmer Perception and Adaptation Strategies on Climate Change in Lower Eastern Kenya: A Case of Finger Millet (*Eleusine coracana* (L.) Gaertn) Production. *Journal of Agricultural Science*: **8 (12)**: 33-40
3. **Shibairo, S.I.**, Madegwa, Y. M. and R. N. Onwonga. 2016. Finger millet (*Eleusine corocana*) production in lower Eastern, Kenya: Status, constraints and opportunities. *British Journal of Applied Science and Technology*. **14(6)**: 1-10
4. Gacheru, P.K., ABONG', G.O., Okoth, M.W., Lamuka, P.O., **Shibairo, S.** and C. M. Katama. 2015. Cyanogenic Content, Aflatoxin Level and Quality of Dried Cassava Chips and Flour Sold in Nairobi and Coastal Regions of Kenya. *Current Research in Nutrition and Food Science*. **3(3)**: 197-206.
5. Odeny, D., Chemining'wa, G., **Shibairo, S.**, and C. Kathurima. 2015. Sensory attributes of coffee under different shade regimes and levels of management. *Food Science and Quality Management*. **46**: 19-26
6. Nyende, K.O., **Shibairo, S.I.** and J.W. Wakhungu. 2015. Botanical composition and selective feeding by goats in the semi-arid lands of central-eastern Kenya. *International Journal of Science and Research*. **4 (3)**: 50-53.
7. Magomere, O. T., Kahi Ngugi; **Shibairo, S.I.**, Mutitu E.; Obukosia, S. 2015. Real time PCR mediated occurrence of Sorghum bicolor alleles in wild sorghum populations. *African Journal of Biotechnology*. **14 (7)**: 551-568.
8. Ambuko Jane, Yumbya Mueni Penina, **Shibairo Solomon** and Owino Willis Omondi 2014. Efficacy of 1-Methylcyclopropene in Purple Passion Fruit (*Passiflora edulis* Sims) as Affected by Dosage and Maturity Stage. *International Journal of Postharvest Technology and Innovation*. **In press**.

9. **Shibairo, S.I.**, O. Nyongesa, R. Onwonga and J. Ambuko 2014. Variation of nutritional and anti-nutritional contents in finger millet (*Eleusine corocana* (L.) Gaertn) Genotypes. *Journal of Agriculture and Veterinary Science*. **7 (11)**:6-12.
10. Mutonyi, J., **S.I. Shibairo**, G.N. Chemining'wa, F.M. Olubayo , N.C.O. Keya, H. W. Nyongesa and M. Konje 2014. Sugarcane response to liming, manuring and inorganic fertilizers on acid acrisols in western Kenya. *International Journal of Recent Scientific Research*. **5 (9)**:1703-1707.
11. Njoroge, P.K. **S.I. Shibairo**, S.M. Githiri and M.W.K. Mburu 2014. Effects of nitrogen application on growth and yield of snowpeas (*Pisum sativum*). *Asian journal of applied Science and Engineering*. **3 (1)**: 35-43.
12. Mutonyi, J., **Shibairo S.I.**, Chemining'wa, G.N., Olubayo, F.O., Nyongesa, H.W. and Konje, M. M. 2014. Effects of N and K fertilization of sugarcane (*Saccharum officinarum*) on acrisols in western Kenya. *Elixir Agriculture* **67**: 21669-21675.
13. **Shibairo, S.I.**, Mutonyi, J, and Chemining'wa, G.N. 2014. Effects of agricultural lime and phosphorus application to sugarcane (*Saccharum officinarum* l) growth, yield and quality. **In press**. *International Journal of Agriscience*. ISSN: 2228-6322.
14. Magomere, O. Titus, Kahi Ngugi; **Solomon Shibairo**; Mutitu Eunice; Silas Obukosia. 2014. Evaluation of Multiplex Pcr in Detection of crop alleles and differential hybridization among weedy sorghum populations. **Accepted for publication**. *Journal of Biological Sciences*.
15. Peninah Yumbya, Jane Ambuko, **Solomon Shibairo** and Willis O. Owino. 2014. Effect of modified atmosphere packaging on the shelf life and postharvest quality of purple passion fruit (*Passiflora edulis* Sims). *Journal of Postharvest Technology* **02 (01)**: 025-036.
16. Onditi John, Njoroge Kiarie and **Shibairo Solomon**. 2013. Improving potato tuber yields using genotypes with multiple virus resistance in Kenya. *Agriculture and biology journal of North America*. **4(4)**: 406-412.
17. Onditi John, Njoroge Kiarie, **Shibairo Solomon**, Lung'aho Charles, Moses Nyongesa, Jane Muthoni, Susan Otieno, Miriam Mbiyu and Judy Oyoo. 2013. Potato virus Y (PVY) and potato virus X (PVX) resistance breeding in Kenya: applicability of conventional approaches. *Agriculture and biology journal of North America*. **4(4)**: 398-405.
18. Onditi, J.O., N. kiarie and **I.S. Shibairo**. 2011. Identification of suitable parents and temperatures for breeding Potato virus Y (PVY) and Potato virus X (PVX) resistant potatoes. *Agriculture and biology journal of North America*. **2(12)**:**1409-1415**.
19. Lung'aho, C., G. Chemining'wa, **S. Shibairo** and M. Hutchinson. 2012. Dynamics of on-farm management of potato (*Solanum tuberosum*) cultivars in Central Kenya. *African Journal of Agricultural Research*. **7(17)**: 2701-2712, Available online at <http://www.academicjournals.org/AJAR>.
20. Onyango, C., J. Harbinson, J. K. Imungi, **S. Shibairo** and O. van Kooten 2012. [Influence of organic and mineral fertilization on germination, leaf nitrogen, nitrate accumulation and yield of vegetable amaranth](#). *Journal of Plant Nutrition* **35 (3)**. - p. 342 - 365.
21. Chemining'wa G.N., J. Ngeno, J.W. Muthomi and S.I. Shibairo. 2012. Effectiveness of indigenous pea (*Rhizobium leguminosarum* bv. *viciae*) in cultivated soils of central Kenya. *Journal of Applied Biosciences* **57**: 4177-4185.

22. Lung'aho, C., G. Chemining'wa, **S. Shibauro**, M. Hutchinson and M. Mbiyu, 2012. Cost effective slow growth *in vitro* conservation of potato (*Solanum tuberosum* L.) using table sugar as an alternative carbon source. *African Journal of Biotechnology*. **11(5)**: 1092-1099, 16. Available online at <http://www.academicjournals.org/AJB>
23. Lung'aho, C., [G. N. Chemining'wa](#), Fu [Yong-Bi](#), **S. Shibauro**, [M. J. Hutchinson](#) and [H. Paniagua](#) 2011. Genetic Diversity of Kenyan Potato Germplasm Revealed by Simple Sequence Repeat Markers. *American Journal of Potato Research*. **88(5)**: 424-434.
24. Olubayo F., D. Kilalo, S. Obukosia, **S. Shibauro**, M. Kasina, 2011. Homopteran pests complex of Citrus (*Citrus sinensis*) in semi-arid Kenya. *International Journal of Sustainable Crop Production*. 6:23-28.
25. [Magomere T.O.](#); [Obukosia, S. D.](#); [Mutitu, E.](#); [Ngichabe, C.](#); [Olubayo, F.](#); **Shibauro, S.** 2009. PCR detection and distribution of Huanglongbing disease and psyllid vectors on citrus varieties with changes in elevation in Kenya. Genetic Diversity of Kenyan Potato Germplasm Revealed by Simple Sequence Repeat Markers *Journal of Biological Sciences* , **9**; 697-709.
26. Magomere T.O., S.D., Obukosia, E., Mutitu, C., Ngichabe, F., Olubayo and **S. Shibauro** 2009. Molecular characterization of Candidatus Liberibacter species/strains causing huanglongbing disease of citrus in Kenya. *Electronic Journal of Biotechnology*, **12**: 1-13.
27. Onyango C.M., J.K. Imungi, J. Harbinson and **S.I. Shibauro**. 2009. The physico-chemical characteristics and some nutritional values of vegetable amaranth sold in Nairobi-Kenya. *Journal of Ecology of Food and Nutrition*. **47**; 382- 398.
28. Kilalo D., F. Olubayo, S. Obukosia and **S.I. Shibauro**. 2009. Farmer management practices of citrus insect pests in Kenya. *African Journal of Horticultural Science*. **2**. 168- 176.
29. Olubayo F., A., Kibaru, J. Nderitu, R. Njeru, **S. Shibauro** and M. Kasina. 2008. Management of aphids and aphid-transmitted viruses in stored seed potatoes in Kenya. *International Journal of Sustainable Crop Production*, **3**; 40-45.
30. Kihurani, A.W., R.D., Narla, **S. Shibauro**, J. Imungi and E., Carey. 2008. Effect of soil pH on postharvest pathological deterioration of sweet potato storage root. *African Journal of Horticultural Science*. **1**. 1-8.
31. Gachango E., **S. I. Shibauro**, J. N. Kabira, G. N. Cheminingwa and P. Demo 2008. Effects of light intensity on quality of potato seed tubers. *African Journal of Agricultural Research*: **3**:732-739.
32. Nyasani J.O., J.W. Kimenju, F.M. Olubayo, **S.I. Shibauro** and G.K. Mutua (2008). Occurrence of endomorphogenic nematodes and their potential in the management of diamondback moth in kale. *Asian journal of plant sciences*. **7** (3): 314-318.
33. **Shibauro S.I.**, P. Demo, J.N. Kabira, P. Gildemacher, E. Gachango, M. Menza, R.O. Nyankanga, G.N. Chemining'wa and R.D. Narla. 2006. The effects of gibberellic acid (GA₃) on sprouting and quality of potato seed tubers in diffused light and pit storage conditions. *Journal of Biological Sciences*, **6** (4): 723-733.
34. Shikuku C.A., **S.I. Shibauro**, J.K. Imungi, V. Hagenimana and P. Ojiambo. 2006. Effects of recharging on moisture loss and quality changes during short term storage of sweet potato (*Ipomea batata* L.). *Botswana Journal of Agriculture and Applied Sciences*, **2**: 67-78.

35. Kithusi G.G., M.Knapp, **S.I. Shibairo**, J.K. Nderitu, K.N. Kiarie. 2005. Effects of four biopesticides on the spider mite *Tetranychus evansi*. *Phytophaga*, **XIV**: 1-8.
36. **Shibairo S.I.**, C.A. Shikuku,, J.K. Imungi and V. Hagenimana. 2004. Effect of packaging materials on weight loss and nutrient quality changes of recharged sweet potatoes (*Ipomoea batats* Poir) during short-term storage. *Journal of Agriculture, Science and Technology*.**6**: 29-47.
37. Ngatia T.M., **S.I. Shibairo**, V.E. Emongor and S.D. Obukosia. 2004. Effects of levels and timing of application of gibberelic acid (GA₃) on growth and yield components of common beans. *The African Crop Science Journal*, 12 (2): 123-131.
38. Mati G.N., Mburu, M.W.K., Kurji, P.N. and **Shibairo, S.I.** 2003. Effects of nitrogen and phosphorus on growth and yield of ironweed (*Vernonia galamensis*). *East African Agriculture and Forestry Journal*, 60 (2): 109- 118.
39. Ngatia T.M., **S.I. Shibairo**, V.E. Emongor and S.D. Obukosia. 2003. Effect of ethephon on growth, yield and yield components of beans (*Phaseolus vulgaris* L.). *Journal of Agriculture, Science and Technology*, 5: 22-38.
40. Kihurani A.W., **Shibairo, S.I.**, Imungi, J.K. Narla, R.D. and Carey, E.E. 2003. Susceptibility of sweet potato germplasm to rhizopus soft rot caused by *Rhizopus stonifer* and *Rhizopus oryzae* in Kenya. *MUARIK Bulletin*, 6: 30-34.
41. **Shibairo S.I.**, M.K. Upadyaya and P.M.A. Toivonen. 2002. Changes in water potential, osmotic potential, and tissue electrolyte leakage during mass loss in carrots stored under different conditions. *Scientia Horticulturae*, 95: 13-21.
42. Gathungu G.K., **S.I., Shibairo**, S.M., Githiri, M.W.K., Mburu, P.S., Ojiambo. 2000. Effect of source, time and method of nitrogen application on growth and yield components of potato in Kenya. *African Crop Science Journal*, 8(4): 387-402.
43. **Shibairo S.I.**, M.K. Upadyaya and P.M.A. Toivonen. 1998. Potassium nutrition and postharvest moisture loss in carrots (*Daucus carota* L.). *Journal of Horticultural Science and Biotechnology*, 73 (6): 862-866.
44. **Shibairo S.I.**, M.K. Upadyaya and P.M.A. Toivonen. 1998. Influence of preharvest water stress on postharvest moisture loss of carrots (*Daucus carota* L.). *Journal of Horticultural Science and Biotechnology*, 73 (3): 347-352.
45. **Shibairo S.I.**, M.K. Upadyaya and P.M.A. Toivonen. 1998. Replacement of postharvest moisture loss by recharging and its effect on subsequent moisture loss during short term storage of carrot (*Daucus carota* L.). *Journal of American Society for Horticultural Science*, 123 (1): 141-145.
46. **Shibairo S.I.**, M.K. Upadyaya and P.M.A. Toivonen. 1997. Postharvest moisture loss characteristics of carrot (*Daucus carota* L.) cultivars during short-term storage. *Scientia Horticulturae*, 71: 1-12.
47. Bitterlich I., M.K. Upadyaya and **S.I. Shibairo**. 1996. Weed control in cole crops and onion (*Allium cepa*) using ammonium nitrate. *Weed Science*, 44: 952-958.
48. **Shibairo S.I.**, J.O. Nyabundi and W. Otieno. 1995. Effects of temperature on germination of three pigeon pea (*Cajanus cajan*) genotypes. *Discovery and Innovation*, 7: 283-287.
49. **Shibairo S.I.**, and J.O. Nyabundi. 1993. Effect of deflowering and defoliation during reproductive phase on flower and pod abscission and yield of pigeon peas (*Cajanus cajan*). *Discovery and Innovation*, 5: 377-380.

(D) CONFERENCES, SEMINARS/WORKSHOP PAPERS

Refereed conference Papers

50. Ambuko, J., E.V., Emongor and **S.I. Shibairo**, G.N. Chemining'wa. 2003. Effects of accel (Gibberellins (GA₄₊₇) + Benzyladenine) on postharvest shelf life of French beans (*Phaseolus vulgaris* L.). *African Crop Science Proceedings* **6**: 536-540.
51. Walingo, A., C. Lungaho and **S.I. Shibairo**. 2001. Baseline survey for use of indigenous vegetables to combat vitamin A deficiency in Kenya. *African Crop Science Conference Proceedings* **5**: Page 665-670. ISSN 1023-070X.

Conference papers

52. Abong' G.O. Okoth M.W., Lamuka P.O., **Shibairo, S.** and Katan C. 2014. Cassava crisps quality as influenced by cultivar, frying temperature and slice thickness. Paper presented at the 3rd cassava regional center of excellence review and scientific conference at Imperial Royale Hotel, Kampala-Uganda. 28th – 30th July 2014. P. 46-48. www.eaappcassava.ug.
53. **Shibairo, S.**, Lamuka P.O., Abong, G.O., Okoth, M.W. and Katana, C. 2014. Farmer characteristics and on-farm post-harvest practise in coastal region of Kenya. Paper presented at the 3rd cassava regional center of excellence review and scientific conference at Imperial Royale Hotel, Kampala-Uganda. 28th – 30th July 2014. P.55-58. www.eaappcassava.ug.
54. Nginya, E.W., Abong', G.O., Lamuka, P.O. **Shibairo, S.** and Katana, C. The role of cassava in nutrition in coastal Kenya. Paper presented at the 3rd cassava regional center of excellence review and scientific conference at Imperial Royale Hotel, Kampala-Uganda. 28th – 30th July 2014. P.59-62. www.eaappcassava.ug.
55. Kihurani A.W., R.D., Narla, **S.I., Shibairo**, J J., Imungi and E., Carey. 2009. Effect of storage temperature on postharvest pathological deterioration of sweet potato storage roots. Paper presented at the 9th workshop on sustainable horticultural production in the tropics- theme value chains of vegetables for local market, export and processing. P. 17.
56. Munyua L.W., F. M. Olubayo, J.H. Nderitu, **S. Shibairo** and E. Obudho, 2005. Comparative resistance/tolerance of commercial potato cultivars in Kenya to major aphid pests. . In Proceedings of 7th Biennial African Crop Science Society (ACSS), Conference, Kampala, Uganda, 5-9 December 2005. pp, 387-393.
57. Olubayo, F.M., Machangi, J.M., Nderitu, J.H., Njeru, R.W., El-Bedewy, R. and **Shibairo, S.I.** 2004. Seed source and farmer management practices and their effect on aphid and virus incidence in farmer managed seed potato production in Kenya. Proceedings. 6th triennial congress of the African Potato Association (APA). 5-10 April, 2004. Agadir, Morocco. Pp.298-299.
58. Kifarua, A. Olubayo, I.M., Nderitu, J.H., Njeru, R.W. and **Shibairo, S.I.** 2004. Evaluation of insecticides and indigenous knowledge (ITK) for management of aphids and and aphid-transmitted viruses in stored seed potatoes in Kenya. Proceedings. 6th triennial congress of the African Potato Association (APA). 5-10 April, 2004. Agadir, Morocco. Pp.282-291.
59. **Shibairo S.I.**, F.M. Omuollo. 2001. Postharvest handling of indigenous vegetable leaves. Paper presented at CIKSAP/HBF workshop on the need for enabling policy framework held on October 16- 17, 2001 at the Landmark Hotel, Westlands, Nairobi, Kenya.

60. Upadhyaya, M.K., **S.I. Shibairo** and P.M.A. Toivonen. 1997. Physiology of postharvest moisture loss from carrots. Joint Annual Meeting of the Canadian Society of Plant Physiologist and American Society of Plant Physiologist, Vancouver, B.C., Canada.
61. Upadhyaya, M.K., **S.I. Shibairo** and P.M.A. Toivonen. 1997. Replacement of postharvest moisture loss by recharging and its effects on subsequent moisture loss during short term storage of carrots (*Daucus carota L.*). Presented at the annual meeting of the American Society of Horticultural sciences, Salt Lake City, UT, U.S.A.
62. Upadhyaya, M.K., **S.I. Shibairo** and P.M.A. Toivonen. 1998. Physiology of postharvest moisture loss from carrots. Can.Soc. Ann. Meeting, Vancouver, B.C.
63. **Shibairo S.I.**, M.K. Upadyaya and P.M.A. Toivonen. 1996. Potassium nutrition and postharvest moisture loss in carrots (*Daucus carota L.*). HortScience 31(4):643. Presented at the Annual Meeting of the American society for Horticultural Sciences, Lexington, Kentucky, U.S.A.
64. Upadhyaya, M.K., **S.I. Shibairo** and P.M.A. Toivonen. 1996. Influence of preharvest water stress on postharvest weight loss of carrots (*Daucus carota L.*) HortScience 31(4):643. Presented at the Annual Meeting of the American Society of Horticultural Sciences, Lexington, Kentucky, U.S.A.
65. **Shibairo S.I.**, M.K. Upadyaya and P.M.A. Toivonen. 1995. Effect of moisture loss on water potential with its components and tissue deterioration of carrots during short term storage. HortScience 30(4): 823. Presented at the Joint Annual Meeting of the American society for Horticultural Sciences and the Canadian Society of Horticultural Sciences, Montreal, PQ, Canada.

Book and book chapter

66. Wahome, R.G, Paul Mbugua, Lily Bebor, Wambui Kogi-Makau, Peter Gathumbi and **Shibairo S.I.**, 2012. The PhD Training Supervision- A trainees manual-. The University of Nairobi Prepare-PhD project team. ISBN:99667127.
67. **Shibairo, S.I.** 2012. Ethical issues in supervision of PhD students. In: The PhD Training Supervision-A trainees manual-. The University of Nairobi Prepare-PhD project team. Supported by the ACP-EU Edulink Programme. Published by Art and Media House, Nairobi, Kenya. Chapter 7. Pgs. 93- 105. ISBN:99667127.

REPORTS:

68. **UON: Mumias food production project.**
A report of the Review of the food situation in the Mumias Sugar Scheme, Western Kenya. 1999. P.O. Chitere, F.I. Mugivane, S.I. Shibairo, T.G. Karugia, D. Wanyama- Masinde, O. Odongo.

Presentations at conferences

- S. I. Shibairo.** 2012. The Faculty of Agriculture and Research Opportunities. Paper presented at the conference on 'China-Kenya forum on the collaboration in dryland agriculture' held between 29th August to 4th September 2012 at Lanzhou University, Gansu China.
- S.I. Shibairo. 2012.** Experiences with RUFORUM at the University of Nairobi. Paper presented at the Third Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Biennial Conference. THEME: Partnerships & Networking for Strengthening Agricultural Innovation and

Higher Education in Africa; 24-28 September, 2012; Imperial Resort Beach Hotel and Imperial Botanical Beach Hotel, Entebbe, Uganda.

S.I. Shibairo, F. Olubayo, A.M. Mwang'ombe, J.M. M'Nyambo 2011. Effect Of Chemical Fertilizers, Farm - Yard And Poultry Manure On Growth And Yield Of Amaranthus And African Nightshade In Taita District. Paper presented at the first Biennial aGRO conference. Theme: Optimization of value chains for sustainable development, 26 – 28th September, 2011 at the College of Agriculture and Veterinary Sciences, University of Nairobi.

Posters at conferences

Jane Ambuko, Penina Mueni Yumbya, Margaret Jesang Hutchinson, **Solomon Igosangwa Shibairo** , Hiroshi Gemma, Willis Omondi Owino 2014. Efficacy of 1-Methylcyclopropene (1-MCP) in Purple Passion (*Passiflora edulis* Sims) Fruits as Affected by Dosage and Maturity Stage. Poster presented at American Society for Horticultural Sciences at Desert Salon 9-10 (Desert Springs J.W Marriott Resort) on Wednesday, July 24, 2013: 8:15 AM.

Shibairo.S.I., Onwonga R.N., Emongor. R., Oduori.A.C., Ambuko.J.,Nyongesa.O.W., Madegwa.Y. 2012. Screening Finger Millet Varieties for Adaptation to Drought Prone Ecological Regions of Eastern Kenya as a Strategy to Combat Food Insecurity and Climate Change. Presented at the Third Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Biennial Conference. THEME: Partnerships & Networking for Strengthening Agricultural Innovation and Higher Education in Africa; 24-28 September, 2012; Imperial Resort Beach Hotel and Imperial Botanical Beach Hotel, Entebbe, Uganda.

Nyongesa.O.W., **Shibairo.S.I.**, Onwonga R.N., Ambuko.J., . 2012. Screening and testing finger millet varieties for drought adaptability and nutritional factors in Eastern Kenya. Presented at the Third Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Biennial Conference. THEME: Partnerships & Networking for Strengthening Agricultural Innovation and Higher Education in Africa; 24-28 September, 2012; Imperial Resort Beach Hotel and Imperial Botanical Beach Hotel, Entebbe, Uganda.

Jane Ambuko, **Solomon I. Shibairo**, Margaret J. Hutchinson, Joseph K. Njuguna and Willis O. Owino. 2012. Improving profitability of the Mango Value Chain through Strategies for Off-season Flower Induction, Reliable maturity Indices and Applicable Postharvest Technologies. Presented at the Third Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Biennial Conference. THEME: Partnerships & Networking for Strengthening Agricultural Innovation and Higher Education in Africa; 24-28 September, 2012; Imperial Resort Beach Hotel and Imperial Botanical Beach Hotel, Entebbe, Uganda.

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Conferences/workshops attendance:

- Workshop on Agricultural Planning for Small-Scale Farmers in East Africa held between 10th-11th February, 2014 by Village Enterprise in Partnership with Makerere University in Kampala, Uganda.
- Conference on 'China-Kenya forum on the collaboration in dryland agriculture' held between 29th August to 4th September 2012 at Lanzhou University, Gansu China
- Board of Postgraduate Studies Strategic Planning Workshop: 3rd – 4th May, 2012. At Kenya School of monetary Studies.
- International Conference for youth in Africa, 2012. 'Factoring Youth Voices into Critical Issues: Agenda on Environmental Sustainability, Climate Change Mitigation and Adaptation, Food Security and Nutrition in Africa, 9th – 10th March, 2012, at College of Agriculture and Veterinary Sciences of the University of Nairobi.
- Research Grants Management Strategic Plan Workshop. By university of Nairobi, at Maanzoni lodge- 9-11th March 2012
- International conference on Agricultural Biotechnology in Africa Fostering Innovation. Organized by Addis Ababa University, The Agricultural Innovation in Africa Project at the Harvard Kennedy School & UNDP Secretariat. May 12- 15, 2011 – United Nations Conference centre, Addis Ababa, Ethiopia.
- Policy Analysis and Advocacy Programme. 'Equal opportunities for a just and sustainable agriculture development. Four days training workshop on gender mainstreaming in Agricultural Research. 23rd-26th November, 2010 at Laico Grand Regency Hotel, Nairobi, Kenya.
- National Launch of Kenya Agricultural Productivity and Agribusiness project (KAPAP) and Eastern Africa Agricultural Productivity (EAAPP) at the Monetary Studies, Thika, Road, Kenya- June 2-4 2010.
- Regional Universities Forum for Capacity Building in Agriculture. Regional Consultative Workshop. 13th November, 2010. Speke resort Conference Center, Munyonyo Kampala, Uganda.
- Seventh workshop on Sustainable Horticultural Production in Tropics: Theme: Weed Management in Organic, Horticultural Production Systems in the tropics. Held at university of Nairobi, 28th November – 1st December, 2007

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Signed

Yours faithfully



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