Curriculum vitae

Personal information

Name KILAVI, Pamella Kageliza

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University of Nairobi/University of Witwatersrand

Doctor of Philosophy in Physics Student

Research Topic: "Radiological dose and risk assessment of enhanced naturally radioactive materials in selected high background radiation areas of Kenya."

University of Nairobi, (October, 2010 to August, 2014)

Master in Science (Nuclear Science)

Thesis topic: "Trace element analysis in complementary infant foods from selected rural-urban areas using total x-ray fluorescence technique."

Kenyatta University, (1996 to 2000)

• Bachelor of Education (Science), Physics and Mathematics

Other trainings

- Nuclear Security trainings and workshops—ICTP/IAEA, African Centre for Science and International Security (AFRICIS) and Kings London College
- IAEA TC project Management using the Logical Framework Approach
- E-learning series on Information and communication Technology on Education
- Professional development course for teachers on International learning and Education for Global Citizenship
- Master training with British Council/Microsoft
- Item Writing Kenya National Examination Council

Successful Grants

 Kalambuka H. Angeyo, Kaniu I. Muchai, Kilavi P. Kageliza Multimodal spectrometric characterization of uranium and thorium bearing mineral ores in the high background radiation areas (HBRA) of Kenya. National Research Fund, Kenya, 2016



Successful Awards

- Organization of Women in Science from Developing Countries (OWSD) PhD Award,
 University of Witwatersrand, 2018
- Higher Education Loans Board PhD tuition Scholarship, 2018
- National Commission for Science and Technology research grant award towards Master of Science in Nuclear Science at the Institute of Nuclear Science and Technology, University of Nairobi, 2012
- International Science Program (ISP) award towards Master of Science in Nuclear Science at Institute of Nuclear Science, University of Nairobi, 2010

Leadership Experience

International Level

- a) International Youth Nuclear Congress (IYNC)
- Public Chair of IYNC2018 conference
- Manager of IYNC2016 plenary session on Atoms for Development: Meeting Human Needs.
- A member of the grant committee
- Participating in decision making as a member of the board of directors
- Co-managed and developed the a workshop plan, in coordination with the Manager in coordination with the IYNC2014 Workshop Chair

Kenyan Young Generation in Nuclear (KYGN)

- Organized the International Science and Technology Centre (ISTC) Management Board
 Ministerial visit to Kenya as they sought Kenyan Membership to ISTC board, 2019
- Organized a seminar on CBRN on behalf of ISTC, 2019
- Chair of AYGN-KYGN Integrated Workshop on Nuclear Advocacy and Communication, November, 2017
- President and Co-Founder of Kenyan Young Generation in Nuclear

African Young Generation in Nuclear (AYGN)

- Co-Founder of African Young Generation in Nuclear
- General Chair of Inaugural African Youth Nuclear Summit 2017 (AYNS2017)

Working Experience

Technical University of Kenya – Tutorial Fellow (August 2015 – to date)

• Teaching, evaluation and mentoring of undergraduate students; Units: <u>Atomic and Nuclear</u>
Physics, Nuclear Energy and other General Units

• Examination Officer (August 2015 – February 2017)

Part-time Physics Lecturer – Jomo Kenyatta University of Agriculture and Technology (April- 2015 - August 2015)

• Planning lessons, training and evaluating students. Units: <u>Radionuclide Technology.</u>

Part-time Physics Lecturer – Catholic University of Eastern Africa (January 2015 - April 2015)

- Planning lessons, training and evaluating students. Units: <u>Radiation Physics</u>; <u>Waves and</u>
 Vibrations; Geometrical Optics.
- Guide my students on research topics and help them come up with cutting edge research and link them for industrial attachment.

Facilitator - British Council (January 2012 – March 2015)

- Training educators on how to use ICT in innovative teaching and global citizenship education
- Training educators on integration of ICT in teaching and learning

Part-time Physics Lecturer – Technical University of Kenya (May 2012 to 2013)

 Planning lessons, training and evaluating students in accordance to the existing syllabus and guidelines of the University.

Senior Examination Officer Kenya National Examination Council (2007 to 2012)

- Assessing, evaluating and grading of candidates nationally in Computer Studies (451/1).
- Supervising and coordinating other examiners
- Ensuring integrity, security and confidentiality of national exams.
- Training, supervising and appraising new examiners

Examination Officer(Computer Studies) - Kenya National Examination Council (2000-2006)

• Assessing and evaluating of candidates nationally in Computer Studies

Physics and Computer studies teacher – Alliance High School (February 2004 to October 2010)

- Planning, teaching and evaluating in accordance to the existing syllabus and ministry guidelines.
- Supervision of Science and ICT projects which are part of Science and Congress

competitions

• Scholarship Coordinator

Computer Studies Teacher – St. Georges' Secondary School (May 2000 to February 2004)

 Planning, delivery and evaluation of lessons in accordance to the existing syllabus and ministry guidelines.

Publications

- Kaniu I., Tollah S.O., <u>Kilavi P.K (2015.</u> Morte Carlo Simulation for Radiation Monitoring in Nuclear Power Plant Environs, Proceedings of ENYGF 2015, June 22-26, Paris, France.
- <u>Kilavi P.K.</u>, Maina D.M., Gatari M.J., Wagner A., Adeleye M.O (2014) Determination of Mn, Fe, Cu and Zn in indigenous complementary infant flour from Kenya by Total-Reflection X-Ray Fluorescence, Journal of Food and Nutrition Science, **3(4)**, 110-116.
- M.O. Adeleye, Y.V. Ibrahim, <u>P.K. Kilavi (2014)</u> Calibration of Gamma-Ray Spectrometer Using Electronic Spreadsheet Package and Dedicated Spectral Analysis Software, International Journal of Science and Technology, 3(3), 168-176.

Presentation

- Kilavi P.K. (2018). Application of TXRF in assessing bioavailable portion of trace elements in formulated in formulated indigenous complementary infant flour. OWSD-Africa Conference, 5 – 7 September, 2018, ICIPE, Nairobi
- Kilavi P.K. (2018). Security and export controls on uranium production, transport and export for conventional and non-conventional resources. Conference on enhancing Africa's capacity on nuclear safety, security and safeguards in SADC countries. 29 -30 August, Lusaka, Zambia
- <u>Kilavi P.K.</u>, Maina D.M., Gatari J.M., Wagner A. (2016), Application of TXRF in Assessing
 Trace Elements in Formulated Indigenous Complementary Infant Flour, 23rd WiN Global
 Annual Conference: Women in Nuclear Meet Atoms for Peace, 24 28 August, Vienna,
 Austria.
- <u>Kilavi P.K.</u>, Kaniu I., Tollah S.O., (2014), Young Generation Initiative to Promote Nuclear Science and Technology: Kenyan Chapter, 6th Interdisciplinary Scientific Conference, 16-17 Oct, Catholic University of East Africa, Nairobi, Kenya.
- <u>Kilavi P.K.</u>, Ngugi H., Kaniu I. (2014). Nuclear Energy: A Key Ingredient in Propelling Kenya Vision 2030, 6th Interdisciplinary Scientific Conference 2014, 16-17 Oct, Catholic

- University of East Africa, Nairobi, Kenya.
- Kilavi P.K. Maina D.M., Gatari J.M., Wagner A. (2014). Determination of Mn, Fe, Cu and Zn in indigenous complementary infant flour by Total Reflection X-ray Fluorescence, 15th International Conference on Total Reflection X-Ray Fluorescence Analysis and 49th Annual conference on X-ray chemical analysis, Sept 23-27, Osaka, Japan

Membership

- KEBS TC 106: Dosimetry, Radiotracer and NDT (2018- 2019)
- Board of Director on the International Youth Nuclear Congress Network and the Kenyan Representative to International Youth Nuclear Congress (iync) Board
- Co-founder and President of Kenyan Young Generation in Nuclear
- Co-founder and Executive Committee Member of Organization of Women in Science from Developing Countries – Kenya (OWSD-Ke)
- Executive Committee Member of Physics Society of Kenya
- Member Eastern Africa Association for Radiation Protection

References

On request