

CURRICULUM VITAE

Full Names: Peter Kimanus Torongey
Date of Birth: 2nd March 1955
Marital Status: Married
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Educational Background

School/College/University	Year	Certificate/Diploma/Degree Obtained
a) Kaptebeswet Primary School	Dec. 1971	Certificate of Primary Education (CPE) <i>English- A Math- A, Gen Paper- B+</i>
b) Maseno Secondary School	Dec. 1975	East African Certificate of Education <i>Division I</i>
c) Kenya Science Teachers College	Apr. 1979	Teachers Certificate (S1)
d) University of Nairobi (Kenyatta University College)	Mar. 1983	Bachelor of Education (Science) <i>Second Honours Class Upper Division</i>
e) Kenyatta University	June 1987	Master of Education (Physics)
f) Southeast University (People's Republic of China)	Nov 1997	Doctor of Philosophy (Physical & Opto-Electronics)

Work Experience

8.1 High School Teaching

- a) Lodwar Secondary School Taught O-level Physics and Mathematics
(May – September 1979)
- b) Kapsabet Boys High School Taught O-level and A-level Physics
(May 1983 – October 1985)

8.2 College/University Teaching

- a) Moi Teachers College
 - Taught Physics Courses to Diploma students in years I and II
(July 1986 – May 1988)
- b) Laikipia Teachers College
 - Taught Physics Courses to Diploma students in years I and II
(May 1988 – August 1989)
- c) Moi University
 - Teach Physics Courses to Undergraduates and Postgraduates in the Department of Physics
 - Teach Computer Science Courses in the

Department of Mathematics and Computer Science

- Participated in the development and launch of 8.4.4 the B.Sc. Physics curriculum
- Participated in the development and launch of M.Phil. in Physics curriculum
- Participated in the development and launch of Computer Science curriculum
- Participated in the development and launch of Aerospace Science and Operations degree program
- Participated in the development of Bachelor of Science with Education degree program
- Supervise Undergraduates Projects in Physics and Computer Science
- Supervise Postgraduates Theses in Physics, Masters and Doctorate
- Been Internal Examiner and External Examiner for Masters and doctorate theses

9 Membership to Learned Organizations

- a) Member of Kenya Physical Society -One time elected as Vice Chairman
- b) Member of Institute of Electronic and Electrical Engineers (IEEE)

10 Administrative Positions and Responsibilities Held at Moi University

- a) 1989-1990 Appointed as Tutorial Fellow in the Department of Physics
- b) 1990-1992 Appointed Physics Department Labs Coordinator
- c) 1990-1998 Appointed on promoted to the position of Lecturer in the Department of Physics
- d) 1992-1993 Appointed Examination and Time table Coordinator
- e) 1993 (25th July-10th September 1993) Appointed Ag. Head of Department of Physics
- f) 1997 (3rd -28th Nov) Appointed as Ag. Head of Physics Department
- g) 1998-2008 Appointed on promotion to the position of Senior Lecturer in the Department of Physics
- h) 1999-April 2001 Appointed as Head, Department of Physics
- i) 1999- 2001 Appointed to Project Supervisor, Y2K Project in the University, funded by MHO Project
- j) 2001 Appointed as Manager, World Bank Funded Computer Project
- k) 2001 Appointed as member of Kenya Education Network (KENET) Management Committee
- l) 2001-2003 Appointed as Dean, Faculty of Science
- m) 2001- 2003 Appointed as Board Member to first Board of Directors of Moi University Holdings Company Ltd.
- n) 2003- 2005 Appointed as Dean, Faculty of Science
- o) 2005- 2007 Appointed as Dean, School of Science

- p) 2005 - 2009 Elected as Senate Representative in Moi University Council
- q) 2006 - 2007 Appointed as a member of ICT Committee
- r) 2006 - 2007 Appointed as a member of MU-VLIR Project Steering Committee
- s) 2005-2007 Appointed as Dean, School of Science
- t) 2007-2009 Appointed as Dean, School of Science
- u) 2008- to date Appointed Associate Professor of Physics
- v) 2007-2009 Appointed as a member of Moi University Tenders Committee
- w) 2009- 8/2011 Appointed acting Dean School of Aerospace Sciences
- x) 2011-todate Appointed Dean School of Aerospace sciences
- y) June 2011 ó June 2012, Ag. Dean School of Biological and Physical Sciences

11 Publications

A. Books

- i. **Peter Torongey**, George Amulele, Mghendi Mwamburi, Richard Anderson, *Physics Laboratory Manual (A manual for general physics course)*, ISBN 9966-854-06-1, Revised Edition, August, 1994

B. Book Reviews

- i. *Introductory Concepts in University Physics* manuscript by OJWANGØ J.G.O AND NDENDA, J.O.H. of Jomo Kenyatta University of Agriculture and Technology, September 2009.

C. Research Papers

- i. J. A. Bhavani, T. Ramajappa, **P.K. Torongey**, N. Murthy, *õUltrasonic Studies of Thermodynamic Fluctuations in (2, 2, 2-Triflouroethanol-1-ol + Benzene) + (Benzene + Dimethyl Sulfoxide) and (2, 2, 2-Triflouroethanol-1-ol+ Dimethyl Sulfoxide) at 298.15Kö*, Acoustic Letter, Vol 18, No.6, 1994.
- ii. **Torongey P. K**, Tong L., *õThe Stress Analysis of a 35-inch(V) 120° Color Picture Tubeö*, Journal of South East University, Vol12/2 Dec 1996
- iii. **Torongey P. K**, Zhang Xiong, Tong Linsu, *õFinite Element Method Applied in the Calculation of Stress Distribution of Glass Envelope of color Picture tube(CPT)ö* (in Chinese), Journal of Vacuum Science and Technology, Vol 26, 1996
- iv. **P. K. Torongey**, T. Ranjappa , N. M. Murthy, Effective Debye Temperature of Binary Mixture of Non-Electrolytes. Indian Journal of Applied Physics (ISSN 0019-5590) Vol. 36, 1998, pp 26-32
- v. W. T. Sakwa, K. M. Khanna, M. Mueni, S. Rotich & **P.K. Torongey**, *õTransition temperature for 1 He liquid adsorbed in disorded mediaö* Indian Journal of Pure and Applied Physics, Vol.42 May 2004, pp 351 -360
- vi. W. T. Sakwa, K. M. Khanna, M. Mueni, S. Rotich & **P.K. Torongey**, *õFour-level approximation in disordered mediumö*, Indian Journal of Pure and Applied Physics, Vol.42 May 2004, pp. 355-360
- vii. K. M. Khanna, M.S.K. arap Kirui, T.W.Sakwa, **P.K. Torongey**, K.Y. Ayodo & S.K. Rorich, *õCorrelation amplitude for quasi-particles in high temperature Tc superconductorsö*, Indian Journal of Pure and Applied Physics, Vol.42 October, 2004, pp 758-763

- viii. K. M. Khanna, R. Ekai, C. K. Ronno, S. K. Rotich & **P.K. Torongey**, *“Theory of multilayer solar cells”*, Indian Journal of Pure and Applied Physics, Vol.43 June 2005, pp. 432-438
- ix. **P. K Torongey**, K.M.Khanna, Y.K. Ayodi, W.T. Sakwa, F.G. Kanyeki, R.T. Ekai, R.N. Kimingichi & S. Rotich, *“Elastic Scattering of ^4He atoms at the surface of liquid helium”*. Indian Journal of Pure and Applied Physics, Vol.48 October, 2010, pp 743-748

12 Supervised/Supervising and Examined Theses

a) Supervised Theses

S/N	Name of student	Title of Thesis	Degree Level
1	Mwene, Anthony Musumba	The control of a chaotic system of Lorentz equations for periods 1 to 4 orbits using Flynn-Wilson method, 2001	M. Phil Moi
2	Muguro, Kennedy Mwura	Simulated circuitry design of four point probe for measurement of receptivity of semiconductors and thin films, 2003	M. Phil Moi
3	Kipchumba , Julius Kogo	Computer Aided Temperature controller for a brooder, 2003	M .Phil Moi
4	Mueni, Mary Lucas	The performance monitoring of a compound parabolic concentrator/photovoltaic system at Equatorial latitudes, 2000	M. Phil Moi
5	Mbugua, Zakayo Mapelu	Fabrication and investigation of photoluminescence properties of porous silicon layers, 2002	D. Phil Moi
6	Mwamburi Mghendi M.	The preparation and characterizations of Fluorine dope Tin Oxide / Aluminum Oxide / Aluminum spectrally selective reflector surfaces for solar concentrator Applications 2003	D. Phil Moi
7	Limo Chelimo	Super fluidity of Crystalline Solid ^4He under higher Pressure	D. Phil Moi

b) Examined Theses

S/N	Name of student	Title of Thesis	Degree Level
1	McOwiti, Appollo Ouma	Microprocessor-Based maximum power measuring for photovoltaic source utilizing a resistor load	M. Phil Moi
2	Tonui, Joel Kipkorir	Design and Development of a Solar panel Controller for Rural Applications	M. Phil Moi
3			
4	Munji, Mathew Kimaiyo	Design, Fabrication and application of Capacitance Voltage (C-V) Meter	M. Phil Moi
5	Makau, Nicolas Wambua	Design and Development of a photovoltaic Energy Recorder	M. Phil Moi
6	Waswa David,	Proto Type Two-way in one Alarm System	M. Phil Moi

7	Kanyi, Charles Wairagu	A Comparison of Micellar Properties of one and two-Headed Surfactants System; Sodium dodecyl sulfate DiSodium 1,2-Dodecyl Disulfate and DiSodium Disulfate	M. Phil Moi
8	Kahenya, Joseph Muigai	Synthese, Characterization and Electrochemical studies of Copper(II) Pernylcyananide Complexes containing 1,10-Phenanthroline spectator Ligands	M. Phil Moi
9	Muchunku, Charles Munene	The Parametric Analysis and Modeling of a low-concentrating Compound Parabolic Concentrator Photovoltaic System	M. Phil Moi
10	Chepkwony, Stanley Kimaiwa	Dual Solutions of Natural Convection Flow	D. Phil Moi
11	Lusweti, John Kituyi	Investigation of Heavy metal Spaciation in Lake Nakuru	D. Phil Moi
12	Arusei, Musa Kipchirchir	Hydrology of Lake Naivasha Catchment Basin	D. Phil Moi
13	Matiasi, Charles Opaka	Density Dependent effective nucleon-nucleon concentration and Nuclear studies	D. Phil Moi
14	Korir J.K.	Investigation of aspects of Combustion of Biomass in fluidized bed Combustor	D. Phil Moi
15	Nelson Kemboi.	The relationship between some selected actors and student's mathematics self-concept and achievement in military science programme of Egerton University, Kenya	M. Ed (Sc) Egerton

13 Conferences Papers

- a) **Torongey P. K.** & Tong Lin Su *“The Finite Element Method and MSC/NASTRAN Applied in Stress Calculation of a 35” (V) Color Picture Tube (CPT) Glass Envelope ø6 MSC China Users Conference, Sept 5-6, 1996, Beijing, Peoples Republic of China*
- b) **Torongey P.K.**, & Tong Lin Su, *The Application of FEM in the Stress Analysis of a 35-inch (V) 120° PCT”, Thin Films Technology College, University of Dar es Salaam, 3rd-14th August, 1998*
- c) **Torongey, P.K.** & Kimeli, V. *“The role of ICT on Internationalization of Higher Education”, International Conference on Internationalization of Higher Education: The African Experiences and Perspective 12th ó 16th August, 2003.*
- d) K.M. Khanna, S.K. Rotich & **Torongey, P. K.**, *“New materials for Sustainable Development”, Moi University 2nd Annual International Conference August 29th ó September 2nd 2006*
- e) Cosmas K. Ronno, **Peter K. Torongey**, & Kapil Khanna, *“A temperature based global solar radiation model for Kenya”, Moi University 2nd Annual International Conference August 29th ó September 2nd 2006*
- f) Cosmas K. Ronno, Kapil Khanna, & **Peter K. Torongey** *“Estimation of global solar radiation under clear skies in Kenya”, Moi University 2nd Annual International Conference, August 29th ó September 2nd 2006*

- g) Odido Dan O., Torongey, Peter K., Kifalu S.B, *Human Factors in Aircraft Maintenance Reduction of Error Potential*. Moi University 7th Annual International Conference , September 6th ó 10th 2011
- h) Kifalu S.B., Ataro E.O, Torongey Peter. K, Githaiga P., Omondi M., *Low Cost Approach in Flight Simulation for Pilot Training and Playing Flight Games*, Moi University 7th Annual International Conference , September 6th ó 10th 2011
- i) Odido Dan O., Torongey, Peter K., *Investigating the Effect of Persistent Contrails on the surface Climate EAC region*. Moi University 7th Annual International Conference , September 6th ó 10th 2011
- j) Kifalu S.B., Torongey Peter K., Nurdin K., *Feasibility of Afforestation through Multi-Agent Unmanned Aerial Vehicle (UAV) Control Programmes*, Moi University 7th Annual International Conference , September 6th ó 10th 2011
- k) Torongey Peter K., Odido D. O., *A Roadmap towards an Integrated EAC Regional Airspace Management. African Research and Resource Forum Regional Conference*, November 26th ó 28th , 2012, Arusha, Tanzania

14 Workshops and Seminars Attended

- a) Book Development /Author Development workshop at Whitesands Hotel, Mombasa, Kenya. on the 20th -29th July, 1992
- b) ARIPO/WIPO PCT Sub-Regional Seminar at Pan Afric Hotel, Nairobi on 15th-17th November, 2001
- c) Workshop on ðWriting Competitive Research Grant Proposalsö at St. John Pastoral Centerö, Eldoret on 30th September to 4th October, 2002.
- d) Workshop for Senior African Computer Administrators at Department of Computer Science and Engineering, Southeast University, China on 9th -27th August, 2003
- e) E-content training for Science and Engineering Subjects at Self-Study Center, University of Nairobi on 30th-25th October, 2003
- f) Moi University 1st Annual Conference, Challenges and Innovations in the 21st Century at Margaret Thatcher Library on the 14th -17th February, 2005
- g) The National Information and Communication Technology policy Stake holders Conference at Sun n Sand Beach resort on 13th ó 15th June, 2005
- h) The Kenya Education Sector Support Programme Sensitization Workshop for University Staff at Maseno University, Kisumu City Campus on 11th ó 12th January, 2006
- i) Moi University 2nd Annual Conference, Science and Socio-Economic for Sustainable Development: Challenges and Opportunities in the 21st Century at Margaret Thatcher Library on the 29^h August -2nd September, 2006
- j) Mastering Public Procurement Seminar at Mombasa Beach Hotel, Mombasa on 13th-15th September, 2006.
- k) Mastering Public Procurement Seminar at Moi University, Eldoret on 23rd-25th July, 2007 , Moi University

- l) Science with Africa Conference at UN Conference Center (UNCC), Addis Ababa, Ethiopia on 3rd -7th March, 2008.
- m) ISO 2001 9000 workshop on Internal Quality Auditing Course. Moi University, August , 2010
- n) Conference of the Association of African Aviation Training organizations (AATO) at Kenyatta International Conference Centre (KICC) on 2nd ó 4th April, 2012, Nairobi, Kenya
- o) International Civil Aviation Organization (ICAO) Course No 119, Emergency Preparedness Response Seminar, 19th ó 23rd April, 2012, Eldoret International Airport, Eldoret, Kenya

15 Service to Community

- a) 2001-2005 Appointed member of the Board of Governors of Kimasian Secondary School.
- b) 2003-2004 Appointed member of Taskforce on Nuclear Science and Technology Policy Guidelines, National Council for Science and Technology.
- c) 2009-2012 Appointed member of the Board of Governors of Chebewor Secondary School, Kedowa
- d) 2010 ó to date Appointed member of the Board of Governors of Londiani Boys Secondary School , Londiani

Signed:

A handwritten signature in black ink, appearing to read 'Peter K. Torongey', is written over a light blue rectangular background.