**CURRICULUM VITAE – PROFESSOR R. K. NKUM**

**PERSONAL**

Name: Robert Kwame Nkum

Present address: Department of Physics

Faculty of Physical and Computational Sciences

College of Science

Kwame Nkrumah University of Science and Technology

Kumasi, Ghana

Date of birth: March 13, 1954

Nationality: Ghanaian

Marital status: Married with four children

E-mail address: [rknkum@gmail.com](mailto:rknkum@gmail.com), [rknkum.cos@knust.edu.gh](mailto:rknkum.cos@knust.edu.gh)

Telephone: Mobile: +233-208-222460

**EDUCATIONAL BACKGROUND**

(a) ***Primary Education***

1961 – 1967: Methodist Primary School, Agona Bobikuma,

Central Region, Ghana

1967 – 1969: Local Authority Middle School, Agona Bobikuma,

Central Region, Ghana

(b) ***Secondary Education***

1969 – 1974: Ghana Secondary Technical School (GSTS), Takoradi,

Ghana, General Certificate of Education/School Certificate, Ordinary Level, Division 1 with distinction

1974 – 1976: Ghana Secondary Technical School (GSTS), Takoradi,

Ghana, General Certificate of Education, Advanced Level, Pass

(c) ***University Education***

1976 – 1980: University of Science and Technology, Kumasi,

Bachelor of Science (Physics), Second Class (Upper Division)

1981 – 1983: University of Science and Technology, Kumasi,

Master of Science (Physics)

1986 – 1989: The Technion-Israel Institute of Technology, Haifa, Israel,

Doctor of Science (DSc)

1990 – 1992: McMaster University, Hamilton, Ontario, Canada,

Postdoctorate in Condensed Matter Physics

**FELLOWSHIPS HELD/MEMBERSHIP OF SCIENTIFIC INSTITUTIONS**

1986 – 1989: ***Lady Davis Fellow***, at the Technion-Israel Institute of

Technology, Haifa, Israel

1990 – 1992: ***Postdoctoral Fellow***, at the McMaster University, Hamilton,

Ontario, Canada

1980 to date: ***Member***, Ghana Science Association

1990 to date: Chattered Physicist and Member, The Institute of Physics,

United Kingdom

1996 – 2000: ***Associate Member***, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy

2000 – 2008: ***Senior Associate***, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy

2003 to date: ***Member***, Materials Research Society of Ghana

2003 to date: ***Member***, West Africa Materials Research Society

**UNIVERSITY TEACHING**

1983 – 1984: ***Assistant Lecturer*** in Physics, University of Science and

Technology, Kumasi, Ghana

1984 – 1993: ***Lecturer*** in Physics, University of Science and Technology,

Kumasi, Ghana

1993 – 1998: ***Senior Lecturer*** in Physics, University of Science and

Technology, Kumasi, Ghana

1998 – 2003: ***Associate Professor*** of Physics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

2003 to date: ***Professor*** of Physics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.

**DETAILS OF RESEARCH**

I have been involved in research in the following areas:

1. Dielectric and ferroelectric properties of materials
2. Superconducting and normal-state properties of Bi-based systems
3. Transport properties of amorphous semiconductors
4. Fabrication and Characterization of semiconducting materials and conducting polymers for device applications
5. Magnetic properties of materials.

The following publications have resulted from my research:

1. R. Weil, **R. Nkum**, R. Muranevich and L. Benguigui, Ferroelectricity in zinc cadmium telluride, Physical Review Letters **62**, 2744 (1989)
2. **R. K. Nkum**, R. Weil, E. Muranevich, L. Benguigui and G. Kimmel, X-ray diffraction evidence of ferroelectric phase transition in zinc cadmium telluride, Materials Science and Engineering **B9**, 217 (1991)
3. P. K. Ummat, **R. K. Nkum** and W. R. Datars, Effect of gallium substitution on the superconductivity of BiSrCaCuO superconducting system, Physica **C180**, 407 (1991)
4. **R. K. Nkum** and W. R. Datars, Fluctuation-enhanced conductivity in the Sb-doped Bi-Pb-Sr-Ca-Cu-O superconducting system, Physical Review **B44**, 12516 (1991)
5. **R. K. Nkum**, Pyroelectricity in cadmium zinc telluride, journal of the University of Science and Technology **11**, 43 (1991)
6. **R. K. Nkum**, Effect of surface layer on the dielectric constant and electrical resistivity of cadmium zinc telluride, Discovery and Innovation **4**, 57 (1992)
7. **R. K. Nkum** and W. R. Datars, Substitution of Sn in the superconductiong Bi-Pb-Sr-Ca-Cu-O system, Physica C**190**,465 (1992)
8. **R. K. Nkum** and W. R. Datars, Fluctuation-induced conductivity in the Sn-doped (Bi,Pb)2Sr2Ca2Cu3Oy system, C**192**, 215 (1992)
9. **R. K. Nkum**, A. Punnet, P. K. Ummat and W. R. Datars, Indium doping in the Bi-Pb-Sr-Ca-Cu-O system, Physica C**194**, 321 (1992)
10. T. W. Krause, **R. K. Nkum**, W. R. Datars and V. V. Gridin, Probing of high Tc sample texturing with a potentiometric ring, Journal of Applied Physics **71**, 5554 (1992)
11. **R. K. Nkum** and W. R. Datars, Superconducting and semiconducting properties of the Bi2Sr2Ca1-xGaxCu2Oy system, Physical Review B**46**, 5688 (1992)
12. **R. K. Nkum** and W. R. Datars, Superconductivity of Ge-doped Bi1.6Pb0.4Sr2Ca2Cu3Oy system, Superconductor Science and Technology **5**, 549 (1992)
13. **R. K. Nkum**, A. Punnet and W. R. Datars, Substitution of 3d metals for Cu in (Bi,Pb)2Sr2Ca2Cu3Oy system, Physica **C202,** 371 (1992)
14. T. W. Krause, **R. K. Nkum** and W. R. Datars, Intergrain and intragrain superconductivity in Sn- and Sb-doped Bi1.7Pb0.3Sr2Ca2Cu3Oy system, Physica C210, 333 (1993)
15. W. R. Datars, P. K. Ummat, T. Olech and **R. K. Nkum**, Reaction of C60 with SbCl5, Solid State Communicarions 86, 576 (1993)
16. **R. K. Nkum** and W. R. Datars, Superconducting and normal-state properties of (Bi,Pb)2Sr2Ca2Cu3-xGexOy, Superconductor Science and Technology 6, 743 (1993)
17. **R. K. Nkum**, Localisation and hopping conduction in the Sb-doped (Bi,Pb)2Sr2Ca2Cu3Oy system, Turkish Journal of Physics 18, 110 (1994)
18. W. R. Datars, T. Chien, **R. K. Nkum** and P. K. Ummat, Intercalation of AsF5 in C60, Physical Review B50, 4937 (1994)
19. **R. K. Nkum** and W. R. Datars, Effect of magnetic field on the resistive transition in the Sb-doped Bi-Pb-Sr-Ca-Cu-O system, Discovery and Innovation 6, 277 (1994)
20. **R. K. Nkum**, Paraconductivity in (Bi,Pb)2Sr2Ca2Cu3-xGexOy, Journal of the University of Science and Technology 14, 177 (1994)
21. **R. K. Nkum** and W. R. Datars, Weak links in In-doped Bi-Pb-Sr-Ca-Cu-O, Superconductor Science and Technology 8, 822 (1995)
22. **R. K. Nkum**, Effect of inhomogeneity on the transition to zero resistivity of Sn-doped Bi-Pb-Sr-Ca-Cu-O, Turkish Journal of Physics 20, 484 (1996)
23. L. Benguigui, R. Weil, A. Chack, E. Muranevich and **R. K. Nkum**, Influence of ferroelectricity on the electrical properties of Cd1-xZnxTe solid solution, Solid State Communications 99, 619 (1996)
24. **R. K. Nkum**, Resistivity anomaly in potassium nitrite, Materials Chemistry and Physics 49, 67 (1997)
25. **R. K. Nkum**, Superconductivity in (Bi,Pb)2Sr2Ca2Cu3-xVxOy, Journal of Materials Science 33, 207 (1998)
26. **R. K. Nkum**, A. A. Adimado and H. Totoe, Band gap energy of semiconducting sulphides and selenides, Materials Science and Engineering B55, 102 (1998)
27. **R. K. Nkum**, Electrical resistivity evidence of ferroelectric phase transition in potassium nitrite, Journal of the Ghana Science Association 2, 1 (1999)
28. **R. K. Nkum**, Effect of Ag as an impurity on the dielectric constant of amorphous As2S3, Journal of Applied Science and Technology 4, 1 (1999)
29. F. Boakye and **R. K. Nkum**, Ferromagnetic transition in Ni and Ni-Mn alloys, Turkish Journal of Physics 24, 557 (2000)
30. **R. K. Nkum** and F. Boakye, Antiferromagnetic transition in α-Mn-Fe system, Turkish Journal of Physics 24, 681 (2000)
31. F. Boakye, **R. K. Nkum** and K. G. Adanu, Magnetoresistance and spin fluctuation of α-Mn thin films and their relationship to substrate temperatures, Thin Solid Films 372, 218 (2000)
32. F. Boakye, K. G. Adanu and **R. K. Nkum**, The anomalous low temperature resistivity and critical scattering of conduction electrons around the Neel point of α-Mn films containing dilute concentration of Ni, Acta Materiala 49, 2095 (2001)
33. **R. K. Nkum** and R. Weil, X-ray diffraction studies of Cd0.9Zn0.1Te at room temperature, Journal of Applied Science and Technology 6, 72 (2001)
34. **R. K. Nkum**, M. O. Gyekye and F. Boakye, Normal-state dielectric and transport properties of In dopes Bi-Pb-Sr-Ca-Cu-O, Solid State Communications 122, 569 (2002)
35. **R. K. Nkum**, H. G. Yankson and J. K. Asubonteng, Dielectric properties and electrical resistance of Zn-doped melt-quenched Bi-Pb-Sr-Ca-Cu-O glassy system, Journal of the Ghana Science Association 4, 80 (2002)
36. **R. K. Nkum**, T. T. Annan, M. Fudlarrahman and F. Boakye, Phase transition in K(NO3)1-x(ClO3)x bulk samples and thick films, Materials Chemistry and Physics **93** 277 (2005)
37. K. Ampong, F. Boakye, **R. K. Nkum,** S. Pupulampo, Y. Collins, Photoconductivity of vanadium pentoxide thin films, Proceedings of the Second College of Science Conference, 94 (2008)
38. F. K. Ampong, F. Boakye, **R. K. Nkum**, The anomalous low-temperature resistivity of thermally evaporated α-Mn thin films, J. Manet. Mater. **322**, 2335 (2010)
39. A. Britwum, M. E. Donkor, F. Boakye and **R. K. Nkum,** Ferroelectricity in sodium nitrite thin films, Journal of the Ghana Science Association, **13,** 70(2011)
40. **R. K. Nkum**, E. K. K. Abavare, K. Ampong and F. Boakye, Optical band gap, extinction coefficient and refractive index of K(NO3)1-x(ClO3)x films, Optoelectronics and Advanced Materials – Rapid Communication **6**, 1170 - 1173 (2012)
41. **R. K. Nkum**, F. K. Ampong, F. Boakye, Conduction mechanism in amorphous As2S3, Journal of Science and Technology **32**, 11 - 17 (2012)
42. T. Opoku-Donkor, R. Y. Tamakloe, **R. K. Nkum**, K. Singh, Effect of COD on OCV, power production and coulombic efficiency of single-chambered microbial fuel cell, International Journal of Advanced Research in Engineering and Technology **4 (7)**, 198 - 207 (2013)
43. I. Nkrumah, F. K. Ampong, B. Kwakye-Awuah, **R. K. Nkum**, F. Boakye, Synthesis and characterization of ZnO thin films deposited by chemical bath technique, International Journal of Research in Engineering and Technology **2**, 809 - 812 (2013)
44. F. G. Hone, F. K. Ampong, T. Abza, I. Nkrumah, **R. K. Nkum**, F. Boakye, Investigating the effect of deposition time on the morphology, structure and optical band gap of PbS thin films synthesized by CBD technique, Elixir Thin Film Technology **76** 28432 - 28437 (2014)
45. F. K. Ampong, I. Nkrumah, **R. K. Nkum**, F. Boakye, Investigating the structure, morphology and optical band gap of Cadmium Sulphide thin films grown by chemical bath deposition technique, International Journal of Technical Research and Applications **2**, 91 -93 (2014)
46. F. K. Ampong, J. A. M. Awudza, **R. K. Nkum**, F. Boakye, P. John Thomas, P. O’Brien, Ternary cadmium zinc sulphide films with high charge mobilities, Solid State Sciences **40,** 50 - 54 (2015)
47. F. G. Hone, F. K. Ampong, T. Abza, I. Nkrumah, **R. K. Nkum**, F. Boakye, Synthesis and Characterization of CdSe Nanocrystalline Thin Film Deposited by Chemical Bath Deposition Technique, International Journal of Thin Films and Technology **4,** 69 - 74 (2015)
48. F. G. Hone, F. K. Ampong, T. Abza, I. Nkrumah, M. Paal, **R. K. Nkum**, F. Boakye, The effect of deposition time on the structural, morphological and optical band gap of lead selenide thin films synthesized by chemical bath deposition method, Materials Letters **155** 58 – 61 (2015)
49. F. G. Hone, F. K. Ampong, I. Nkrumah, **R. K. Nkum**, F. Boakye, Effect of annealing on the structural, morphological and optical band gap of nanocrystalline cadmium selenide thin films synthesized by chemical bath deposition technique, Elizir Thin Film Tech. **84** 33486 – 33489 (2015)
50. B. Y. Danu, I. Nkrumah. F. K. Ampong, **R. K. Nkum**, F. Boakye. Annealing-induced phase changes and variations in the optical properties of CuS and CuSe thin films synthesized bt the CBD technique, International Journal of Technical Research and Applications **4**, 65 - 72(2016)
51. T. Abza, F. K. Ampong, F. G. Hone, I. Nkrumah, **R. K. Nkum**, F. Boakye, The influence of deposition temperature on the structure and optical band gap of zinc sulphide thin films deposited from acidic chemical baths. Elixir Condensed Matter Physics **93**, 39511 - 39514 (2016)
52. K. Owusu-Sekyere, I. Nkrumah, **R. K. Nkum**, K.Singh, A study of optical absorption of polyanline thin films prepared by chemical bath deposition method, International Journal of Advanced Research in Engineering and Technology (IJARET) **7**, 109 - 117 (2016)
53. K. Owusu-Sekyere, I. Nkrumah, **R. K. Nkum**, K. Singh, Effect of pH on the optical absorption of polyaniline thin films prepared by electrochemical polymerization on ITO glass, International Journal of Advanced Research in Engineering and Technology (IJARET) **7** (4), 43 - 49 (2016)
54. F. G. Hone, F. K. Ampong, **R. K. Nkum**, F. Boakye, Band gap engineering in lead sulphide selenide (PbS1-xSex) thin films synthesised by Chemical Bath Deposition Method, Journal of Materials Science: Materials in Electronics (JMSE) DOI 10.1007/s10854-2016-5874-6
55. K. Owusu Sekyere, I. Nkrumah, **R. K. Nkum**, K. Singh, Optical properties of PANI/SnO2 nanocomposites, European Scientific Journal **13** (March), 242 -250 (2017)
56. T. Abza, F. K. Ampong, F. G. Hone, I. Nkrumah, **R. K. Nkum**, F. Boakye, A new route for the synthesis of CdS thin films from acidic chemical baths, Int. J. Thin Film Sci. Tec. **6** (2), 67 - 71 (2017)
57. E. K. K. Abavare, M. K. E. Donkor, S. N. A. Dodoo, O. Akoto, F. K. Ampong, B. Kwaakye-Awuah, **R. K. Nkum**, Indirect phase transition of refractory nitrides compounds: TiN, ZrN and HfN crystal structures, Computational Materials Science **137**, 75 - 84 (2017)
58. T. Abza, F. K. Ampong, F. G. Hone, **R. K. Nkum**, F. Boakye, Preparation of cadmium zinc sulphide (Cd1-xZnxS) thin films from acidic baths, Thin Solid Films **666**, 28 - 33 (2018)
59. O. A. Nunoo, E. K. K. Abavare, **R. K. Nkum**, K. Singh, Synthesis and study of ATR spectra of polyaniline/gra nanocomposites, International Journal of Advanced Research in Engineering and Technology (IJARET) **10**, 40 - 46 (2019)
60. E. A. Botchway, F. K. Ampong, I. Nkrumah, F. K. Boakye, **R. K. Nkum**, Growth of a pure and single phase iron sulphide (pyrite) thin film by electrochemical deposition for photovoltaic applications, Open Journal of Applied Sciences **9**, 725 – 735 (2019)
61. E. N. A. Armah, F. K. Ampong, M. Egblewogbe, H. A. Koffi, F. Boakye. J. K. A. Amuzu, **R. K. Nkum**, Solubility of Mn in ZnO nanocrystallites using wet chemical synthesis, Advanced Nano Research **2**, 53 - 61 (2019)
62. A. Britwum, M. K. E. Donkor, F. K. Ampong, F. Boakye, **R. K. Nkum**, Transport properties of K(NO3)1-x(ClO3)x thick films, International Journal of Science and Research (IJSR) **8**(11), 748 - 751 (2019)
63. D. U. Ngbiche, I. Nkrumah, F. K. Ampong, Mark Paal, **R. K. Nkum**, F. Boakye, Optical and structural properties of chemical bath deposited cadmium sulphur selenide (CdS1-xSex (0 ≤ x ≤ 1)) thin films. Open Journal of Applied Sciences **9**, 789 – 798 (2019)
64. M. A. B. Animpong, **R. K. Nkum**, W. O. Oduro, E. Von-Kiti, B. A. Tuffour, A. Quarshie, The characterization of fly ash during high temperature oxidation of galvanized steel, Journal of Materials Science Research and Reviews **4**(4), 1 – 8 (2019)
65. M. Paal, I. Nkrumah, F. K. Ampong, D. U. Ngbiche, R. K. Nkum, F. Boakye, The effect of deposition time and sulfurization temperature on the optical and structural properties of iron sulphide thin films deposited from acidic chemical baths, Science Journal of University of Zakho 8 (3), 97-104, 2020
66. E. N. A. A. Armah, M. Egblewogbe, H. A. Koffi, A. A. Yankson, F. K. Ampong, F. Boakye, J. K. A, Amuzu, **R. K. Nkum**, Solubility of Mn in ZnO Crystallites Synthesized Using Solid State Techniques, Advanced Nano Research, vol.3 (1), 28 – 39, 2020
67. C. K. Bandoh, I. Nkrumah[[1]](#footnote-1)\*, F. K. Ampong, R. K. Nkum, F. Boakye, **Effect of Annealing on the Structure and Optical Properties of Lead Selenide and Cadmium Selenide Thin Films Prepared by Chemical Bath Deposition, Chalcogenide Letters, vol. 18 (2), 2021**

**CONFERENCES/SEMINARS/WORKSHOPS**

1. 13th Biennial Conference of the Ghana Science Association, University of Cape Coast, 1983.
2. 14th Biennial Conference of the Ghana Science Association, University of Science and Technology, Kumasi, Ghana, 1985
3. 2nd Biennial Conference of the University Teachers’ Association of Ghana, Cape Coast, 1985
4. Spring College in Condensed Matter Physics on: order and chaos in nonlinear Physical Systems, International Centre for Theoretical Physics, Trieste, Italy, 21 April – 13 June, 1986
5. The 2nd International Congress and Exhibition on Energy, Tiberias, Israel, June 5 – 11, 1988
6. The Second Edward Bouchet-ICTP Internal Conference, Accra, Ghana, August 14 – 17, 1990
7. The 92nd Congress of the Canadian Association of Physicists, University of Windsor, Ontario, Canada, June 1992
8. 18th Biennial Conference of the Ghana Science Association, University of Ghana, 1993
9. Joint 19th Biennial Conference of the Ghana Science Association and 15th West African Science Association, University of cape Coast, cape Coast, Ghana, 1995
10. 6th Biennial Workshop of the Ghana Science Association, Accra, August, 1996
11. Fourth College on Microprocessor-based Real-time Systems in Physics, 7 October – 1 November, 1996, International Centre for Theoretical Physics, Trieste, Italy
12. ICTP-UNU-Microprocessor Laboratory Fourth Course on Basic VLSI Techniques, 18 November – 13 December, 1996, International Centre for Theoretical Physics, Trieste, Italy
13. IX Trieste Workshop on Open Systems in Strongly Correlated Systems, 14 – 25 July, 1997, International Centre for Theoretical Physics, Trieste, Italy
14. Workshop on Renewable Energy Systems Development and Applications (RESDA), Kumasi, Ghana, 17 – 20 November, 1998
15. The First Stig Lundqvist Research Conference on The Advancing Frontiers in Condensed Matter Physics: “Quantum Phases in Electron Systems of Low Dimensions”, 26 – 29 July, 1999, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy
16. Adriatico Research Conference on High-field Transport in Supperlattices, 10 – 13 August, 1999, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy
17. 22nd Biennial Conference of the Ghana Science Association, 5 – 9 August, 2001, University of Cape Coast, Cape Coast, Ghana.
18. First Regional College on Frontiers of Condensed Matter Physics, 20 – 24 August, 2001, University of Cape Coast, Cape Coast, Ghana
19. Inauguration of the West African Chapter of Materials Research Society, 26 – 27 May, 2003, Akure, Nigeria
20. Third Stig Lundqvist Conference on Advancing Frontiers of Condensed Matter Physics: Fundamental Interactions and Excitations in Confined Systems, 11 – 15 August, 2003, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy
21. 1st African Regional Conference of Vice-Chancellors, Provosts and Deans of Science, Engineering and Technology, Accra, Ghana, 15 – 17 November, 2005
22. Professorial Inaugural Lecture, R. K. Nkum, ***Entangled in a Material World***, January 26, 2007
23. 26th Biennial Conference of the Ghana Science Association, University of Cape Coast, Cape Coast, Ghana, 4 – 9 August, 2009
24. First Research Conference for Polytechnics in Ghana, 26 – 29 October, 2009, Dodowa, Ghana
25. 27th Biennial Conference of the Ghana Science Association, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 11 – 15 July, 2011. Presented a paper on: Ferroelectricity in sodium nitrite thin films.
26. 28th Bienniel Conference of the Ghana Science Association, University of Ghana, Legon, Ghana

**OFFICES HELD/RECORD OF SERVICE**

(a)

1980 – 1986: ***Assistant Examiner***, Advanced Level Physics Paper and Paper 3, West African Examinations Council

1985 – 1986: ***Examinations and Time-table Officer*** of the Department of

Physics, University of Science and Technology, Kumasi, Ghana Science Association

1989 to date: ***Fellow***, Independence Hall, University of Science and

Technology, Kumasi, Ghana

1992 ***Team Leader,*** Advanced Level Physics, Paper 1, West

African Examinations Council

1993 – 1996: ***Chief Examiner and Moderator***, Ordinary Level Physics,

Advanced Level Physics and Senior Secondary School Physics, West African Examinations Council

1993 – 2000: ***Tutor,*** Independence of Hall, University of Science and

Technology, Kumasi, Ghana

1994 – 1996: ***Faculty of Science Representative*** on the Board of the

Institute of Mining and Mineral Engineering, University of Science and Technology, Kumasi, Ghana

1994 – 2008: ***Co-Chief Examiner and Moderator***, Senior Secondary

School Physics and West Africa Senior Secondary Certificate Examination, West African Examinations Council

1995 – 1997: ***Honorary President***, Kumasi Branch and National Vice-

President of the Ghana Science Association

1997 – 2002: ***Faculty of Science Representative*** on the Board of the

Institute of Technical Education, University of Science and Technology, Kumasi, Ghana

1998 Member, National Organising Committee on Workshop on

Use of Radio for Computer Networks

2000 – 2003: ***Faculty of Science Representative*** on the Board of the

School of Graduate Studies, Kwame Nkrumah University of

Science and Technology, Kumasi, Ghana

2000 – 2004: ***Head,*** Department of Computer Science, Kwame Nkrumah

University of Science and Technology, Kumasi, Ghana

2000 – 2003: ***Deputy Vice-Dean***, Faculty of Science, Kwame Nkrumah

University of Science and Technology, Kumasi, Ghana

2000 - 2007 ***Member*** of the Academic Board, Kwame Nkrumah University

of Science and Technology, Kumasi, Ghana

2000 to date ***Reviewer*** – Elsevier Journals in Physics

2001 – 2006: ***Academic Board Representative*** of the Executive Committee, Kwame Nkrumah University of Science and Technology

2001 ***Member,*** Committee on Graduate Programmes offered by

the Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

2002 – 2003: ***Vice-Dean***, School of Graduate Studies, Kwame Nkrumah

University of Science and Technology, Kumasi, Ghana

2003 Chairman, Graduate School Committee on PhD

programmes in the College of Art, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

2003 – 2004: ***Vice-Dean***, Faculty of Science, Kwame Nkrumah University

of Science and Technology, Kumasi, Ghana

2004 ***Chairman***, Committee on the Affiliation of the Regent

University College of Science and Technology with the Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

2004 ***Member,*** Committee on the Establishment of BSc

Telecommunication Engineering Programme in the College of Engineering, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

2004 ***Member,*** Committee on Guidelines for Considering

Applications for Affiliations with the Kwame Nkrumah University of Science and Technology

2005 ***Chairman***, Committee for the Establishment of the

Department of Computer Engineering in the College of Engineering, Kwame Nkrumah University of Science and Technology

2005 – 2007: ***Foundation Dean***, Faculty of Physical Sciences, College of Science, Kwame Nkrumah University of Science and Technology

2007 ***Chairman,*** Committee on the Affiliation of the All Nations University College with the Kwame Nkrumah University of Science and Technology

2007 - 2010 ***Rector***, Cape Coast polytechnic, Cape Coast (On Sabbatical Leave and post-Sabbatical Leave of Absence from the Kwame Nkrumah University of Science and Technology)

2007 - 2010 ***Member,*** Governing Council, Cape Coast Polytechnic, Cape Coast

2007 - 2010 ***Member***, Finance Committee, Cape Coast Polytechnic, Cape Coast

2007 - 2010 ***Chairman***, Finance Sub-Committee, Cape Coast Polytechnic, Cape Coast

2007 - 2010 ***Chairman***, Development Committee, Cape Coast Polytechnic, Cape Coast

2007 - 2010 ***Chairman***, Appointments and Promotions Committee, Cape Coast Polytechnic, Cape Coast

2007 - 2010 ***Chairman***, Academic Board, Cape Coast Polytechnic, Cape Coast

2007 - 2010 ***Member,*** Audit Report Implementation Committee, Cape Coast Polytechnic, Cape Coast

2007 - 2010 ***Chairman,*** Research and staff Development Committee, Cape Coast Polytechnic, Cape Coast Polytechnic

2007 - 2010 ***Chairman***, Executive Committee, Cape Coast Polytechnic, Cape Coast

2008 - 2009 ***Chairman*** of the Organizing Committee, First Research Conference for Polytechnics in Ghana

2009 ***Member***, Technical Committee on the Harmonisation of Competency-Based Training, Council for Technical and Vocational Education and Training (COTVET)

2009 - 2010 ***Member,*** National Accreditation Board (Representing the Polytechnics in Ghana)

* Member of the Finance Committee
* Member of the Accreditation Committee
* Member of the Institutional Visitation Committee

2010 - 2013 ***Provost,*** College of Science, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

2010 – 2013 Member, Executive Committee, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

2010 - 2013 Chairman, College of Science Board, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

2010 - 2013 Member, Academic Board, KNUST, Kumasi, Ghana

Nov 2010–Feb. 2015 ***Member***, University Appointments and Promotions Committee, KNUST, Kumasi, Ghana

2010 - 2017 Representative of KNUST on the

* Ghana National Committee of the West African Examinations Council
* Ghana Examinations Committee of the West African Examinations Council
* International Examinations Committee of the West African Examinations Council

2010 - 2018 **Chairman** (Representative of the Director-General of the Ghana Education Service) of Board of Governors, Oppon Memorial Senior High School, Kokofu, Ashanti, Ghana

2010 to date **Chairman**, Board of Governors, Elite College, Ayeduase-Kumasi, Ghana

2016 - 2017 **Chairman**, Centre for Continuing Education and Training, Institute of Distance Learning, Kwame Nkrumah University of Science and Technology, Kumasi

1. \* Corresponding author: inkrumah.sci@knust.edu.gh [↑](#footnote-ref-1)