

CURRICULUM VITAE:



NAME: John Nguthu Mutio

PLACE OF BIRTH: Kitui District, Kenya.

PRESENT POSITION: Professor of Mathematics at Kenyatta University.

FORMAL EDUCATION:

- 1954-57 - Alliance high School, Kikuyu, Kenya
- 1958-59 - Makerere University College, Kampala, Uganda
- 1962-65 - Earlham College, Richmond, Indiana, U.S.A
- 1965-67 - Indiana University, Bloomington, Indiana, U.S.A
- 1968-71 - Syracuse University, Syracuse, New York, U.S.A

ACADEMIC QUALIFICATIONS:

- Dec. 1957 - Cambridge School Certificate, O-level, (1st Division)
- June 1965 - B.A. (Pure and Applied Mathematics), Earlham College, Indiana, U.S.A
- June 1967 - M.A. (Pure Mathematics) Indiana University, Indiana, U.S.A
- Aug 1971 - Ph.D. (Pure Mathematics), Syracuse University, Syracuse, N.Y., U.S.A.

ACADEMIC AWARDS:

1. 1962-65 - African Scholarship Program for American Universities, for study at Earlham College, Indiana, U.S.A.
2. 1965-67 - Teaching Assistantship at Indiana University.
This assistantship enabled me to study for the M.A.(Mathematics)
3. 1968-71 - Rockefeller Foundation scholarship to study for the Ph.D. degree at Syracuse University.
4. 1983 - Attended 3-month course on Staff Development in Higher Education at the University of Surrey, U.K.
5. 1991 - UNESCO/Italian Government scholarship to attend a 2-month Fundamentals of Computer Science at the International Centre for Mechanical Sciences at Udine, Italy.
6. 1985 - Attended a course on Computer networks and applications at the IBM Africa Institute, Ivory Coast, sponsored by IBM, Europe.
7. 1990 - Attended a course on Mathematics of computing.

WORKING EXPERIENCE:

1. 1967-68 - Special Assistant Lecturer at the University College, Nairobi.
2. 1968-73 - Lecturer, University of Nairobi.
3. 1973-77 - Senior Lecturer, Kenyatta University College.
4. 1977-80 - Associate Professor of Mathematics, K.U.C.
5. 1977-79 - Acting Chairman of Department of Mathematics at Kenyatta University College.
6. 1980-Present - Professor of Mathematics at Kenyatta University College and later at Kenyatta University. As Professor of Mathematics, I had the following duties:
 - (a) Teaching of both undergraduate and postgraduate Students in the department.
 - (b) Supervision of M.Sc. and Ph.D. students (10 M.Sc. and 2 Ph..D. students graduated).
 - (c) Research and seminars in the department.
 - (d) Development and revision of mathematics syllabuses.

7. 1979-86 - Dean of the Faculty of Science, K.U.C.
8. 1986-1991 - Chairman, Department of Mathematics, K.U.
- 9 1991-1998 - Deputy Vice-Chancellor, (Academic)
10. 1998 - Deputy Vice-Chancellor (Finance, Planning & Development).

PARTICIPATION IN COLLEGE/UNIVERSITY ACTIVITIES:

1. Chairman, Time-Tabling Committee, 1976-77 and 1986-1991
2. Science Faculty Representative to the Academic Board, 1976-77.
3. Member of the Unit Course System Committee of the Faculty of Science from 1975 (K.U.C. was the first institution to introduce the Unit Course System in Kenya under my Deanship).
4. Senate Representative to Kenyatta University Council.
5. Chairman of Senate subcommittees for:
 - a. Pension Scheme for K.U. staff.
 - b. Audio/Visual project.
6. Nominated by the Vice-chancellor to chair very many academic and non-academic appointments.
7. Member of Academic Board of K.U.C. and Senate of K.U. since 1977 to date.
8. Senate representative to the Inter-University Council for East. Africa.
9. Chairman of Procurement Committee, 2007 to date.

PARTICIPATION IN NATIONAL ACTIVITIES:

1. 1982 - Chairman of the National Committee for Secondary School Mathematics Syllabus.
2. 1983-2007 - Member of the Income Tax Nairobi South Committee. This committee received and considered appeals by tax payers who were aggrieved by tax assessments. Members of this committee were expected to be people of Unquestionable integrity and sense of responsibility.
3. 1987-2002 - Director of Industrial Development Bank (IDB). Here I was the chairman of the Investment Committee of the board of Directors responsible for assessments of Investment project applications. It is this committee which recommends such projects to the Board of Directors for approval funding.
4. 1998-2002 - Chairman, Industrial and Commercial Development Corporation (ICDC)

COFERENCES AND WORKSHOPS:

1. 1987 - Attended a workshop/conference on Algebraic K-theory at the University of Ibadan, Ibadan, Nigeria.
2. 1988 - Attended a Mathematics Conference organized by the Southern African Mathematics and Science Association In Lesotho.

RESEARCH AND PUBLICATIONS:

1. Another Counting Principle – Journal of Kenya Mathematical Society, 1968
2. On Problem Solving – Journal of Kenya Mathematical Society, 1968.
3. Frobenious Groups – Ph.D. dissertation, Syracuse University, 1971.
4. Frobenious Groups and Wedderburn's Theorem – Proceedings of the East African Universities Mathematics Conference, Nairobi, 1971.
5. (With L.C. Grove) the Number of Conjugacy Classes in a Metacyclic Group – Simon Stevin, Quarterly J. of Pure and Applied Mathematics, Vol. 47 (1973) 45-47.
Reviewed in Mathematical Reviews, Vol.49, #2922.
6. Complete Metacyclic Groups I – Commentationes Mathematicae, 163 (1975)
7. Complete Metacyclic Groups II – Revue de la Faculte' des Sciences de L' Universite d' Istanbul, Series A, Vol.40 (1975) 29-32.
8. Some Generalized Conjugacy Classes of Split Metacyclic Groups – Simon Stevin 50 (1976-77), 53-60.
Reviewed in Mathematical Reviews, Vol.54, No.#5347.
9. Central Automorphisms of a Split Metacyclic Group – Simon Stevin, 52 (1978), 145-155.
Reviewed in Mathematical Reviews, (1979).
10. (With I. Hughes) On Blower's Conjecture – Notices of the American Mathematical Society (1979)
11. On The Existence Of Prime Elements Outside Subgroup Conjugates in a Finite Group – Proceedings of the Southern African Mathematics and Science Conference, (1986).

12. Mathematics as a Second Language – Inaugural Lecture, 1990.
13. On Blower's Conjecture II – Notices of the American Mathematical Society (1999).
14. On the Structure of Frobenious Groups – submitted to the Indiana University J. of Pure and Applied Mathematics, (2008).
15. Theorems Like Sylow's for Frobenious Groups – submitted to the Journal of Algebra.

INTERACTION WITH OTHER UNIVERSITIES:

This has been mainly as an examiner for Mathematics:

1. University of Swaziland , 1986-1988.
2. University of Zambia , 1988-1990.
3. University of Malawi , 1989-1991.
4. University of Zimbabwe , 1990
5. University of Zambia for M.Sc students , 1991
6. University of Dar-es-Salaam , 1988-1990

MEMBERSHIP TO PROFESSIONAL BODIES:

1. Member of the American Mathematical Society.
2. Member of the Kenya National Academy for Advancement of Arts and Sciences.
3. Member of the African Mathematical Union.
4. Also member of the History of Mathematics Committee of A.M.U.
5. Member of the Southern African Mathematics and Science Association.
6. Founder member of Educational Services Foundation, a non-profit organization based in Kenya.

RECENT STUDENT SUPERVISION:

1. One Ph.D. student graduated in December 2008.
2. Co-supervisor of more than 4 M.Sc. students.

CURRENT RESEARCH:

1. The member of p-blocks of a Frobenious Group.
 2. The Monodromy genus of a Frobenious Group.
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