

CURRICULUM VITAE

NAME: Prof. Chandra Bali Singh

DATE OF BIRTH: 1st January, 1947

NATIONALITY: Indian

ADDRESS:

- (i) Postal: Prof. C.B. Singh
Associate Professor
School of Mathematics
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- (ii) Permanent: Prof. C.B. Singh
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Varanasi (U.P.),
INDIA.

MARITAL STATUS: Married

- (a) Name of wife: Mrs. Shakuntala Singh
(Born-June 12,1951)
- (b) Names of Children
- (i) Mr. Nishant Singh
(Born August 9, 1975)
- (ii) Mr. Prashant Singh
(Born September 12, 1984)

Academic Qualifications:

Examination	year of passing	University	Subject
Passing			
PhD	1978	Banaras Hindu University Varanasi (INDIA)	Mathematics
Msc	1970	Banaras Hindu	Mathematics

Title of the Thesis: ‘Some studies in Magnetohydrodynamical Flow’

Specialization: Applied Mathematics

(Fluid Dynamics, Numerical Analysis, Engineering Mathematics).

Teaching/Research Experience: 35 years, 2 months

(a) University of Nairobi (25 years 2 months)

Joined November, 1987 as a Lecturer, Appointed Senior Lecturer Nov. 2002. and working as Associate Professor since Oct. 2010.

(b) Banaras Hindu University (10 years:- 4 years as Research Fellow and 6 years as Research Associate).

Project Supervision and Related Activities:

- i. One of the PhD. Thesis of V.O.Omwenga at the School of Mathematics 2011.
- ii. Supervised M.Sc (Applied Mathematics) project of G. Kimathi 2001.
- iii. Supervised M.Sc (Applied Mathematics) project of James Okwoyo 2005
- iv. Supervised M.Sc (Applied Mathematics) project of Kiema Wambua 2006.
- v. Internal examiner of the PhD. Thesis in Applied Mathematics 2007.
- vi. Board member of the board of examiners meeting of the Ph.D thesis of S.W.Monyo in Applied Mathematics 1997.
- vii. Board member of board of examiners meeting of the Ph.D. thesis J.B.Awour in Phys 1999.
- viii. Board member of the board of examiners meeting for M.Sc. thesis of Mr. J.K. Muraka 1992.

COURSES TAUGHT:

(a) Post Graduate Applied Mathematics Courses:

- i. Fluid Dynamics
- ii. Compressible Flow Theory
- iii. Methods of Applied Mathematics
- iv. Applied Mechanics (Industrial Mathematics Students)

(b) Post Graduate Engineering Course:

- (i) Applied Mathematics

(c) Undergraduate Courses:

- i. Linear Algebra

- ii. Vector Analysis
- iii. Fluid Mechanics
- iv. Numerical Analysis
- v. Dynamics
- vi. Methods of Applied Mathematics
- vii. Differential Equations
- viii. Calculus

(d) Undergraduate Service Courses:

- i. Engineering mathematics to first year, 2ND year and third year Engineering students.
- ii. Functions of a complex variable (to final year Electrical Engineering students).
- iii. Linear Algebra, Calculus and Applied Mathematics to students from different faculties.

(e) Teaching for International Projects:

- i. Post-graduate Agriculture Engineering students under SAREK/Netherlands Project 1991.
- ii. Post-Graduate Diploma Operational Hydrology Course students from African countries under WMO Project 1992-1998.

Research and other Departmental Activities since 1988.

(a) Research Activities:

- i. Presented a paper entitled “Magneto-hydrodynamic Steady Flow of Liquid Between two parallel infinite Plates” at the symposia organized by Kenya Mathematics Society August 1992.
- ii. Presented a paper entitled “Magneto-hydrodynamics and steady flow of Viscous Incompressible Fluid Between Two Parallel Infinite Plates Under the influence of inclined Magnetic field” at the ANNUAL SEMINAR organized by Kenya Society of Agricultural Engineers August 1992.
- iii. A paper entitled “Steady flow of Viscous Incompressible Fluid Between Two parallel Infinite Plates in Presence of Transverse Magnetic Field” has been accepted for presentation at the 16th European Symposia on Nuclear Fission and Plasma Physics 1987.
- iv. Delivered Departmental seminars on studies in Fluid Dynamics.
- v. Board Member for three Ph.D students and also some masters students.
- vi. Attended a Career Improvement Workshop in Mathematics and Computer Science in Kenyan Universities from 28th February -3rd March 2000.

(b) Departmental Duties:

- i. Chairman Faculty Calendar and Brochure Committee.
Associated with the processing of Faculty Calendar and Brochure.
- ii. Member Examinations Committee.
Associated with the processing of undergraduate and postgraduate Examination results.
- iii. Member of Registration Committee.
Associated with the registration of undergraduate students (1988-1997).
- iv. Member of Academic Affairs Committee.

Member of the Sub-committee for the preparation of undergraduate mathematics syllabus.

(c) Referee Kenya Journal of Science and Technology, International Journal of BioChemiPhysics.

(d) Member Kenya Mathematics Society.

Book Writing

Writing a book on Vector Analysis.

Social Works:

- i. Accompanied the body of late Dr. A. Siddique, a Senior Lecturer at Kenyatta University (Kenya) to India who passed away on 11th February, 1992.
- ii. General Secretary of MAHAMANA FORUM (Banaras Hindu University, INDIA) founded to do social service both inside and outside Banaras Hindu University. VARANASI(INDIA).(NOV.1983 to Oct. 1986).
- iii. Convener of the processing and Minutes Committee of MAHATMA-MAHAMANA FORUM (Banaras Hindu University, INDIA) (October 1982 to November 1983).

LIST OF RESEARCH CONTRIBUTIONS.

1. Omwenga V .O., Manene M.M., Singh C.B.

Model for the Estimation of Initial Conditions in a Conflict Environment
International Journal of BioChemiPhysics, Vol.19,July 2011.

2. Singh C.B., George Kimathi

Laplace Transform solution of Hydro magnetic steady flow problem of viscous incompressible fluid flowing between two parallel infinite plates with constant applied pressure gradient. International Journal of BioChemiPhysics, Vol.17, No. 1, July 2009 pp 32 - 36

- 3.Singh C.B

Coquette flow between two parallel infinite plates in presence of transverse magnetic field. J. Kenya Meteorol. Soc., 2(2) 93 – 97 (2008)

4. Singh C.B

Steady flow of liquid between two parallel infinite plates with applied pressure gradient under the influence of inclined magnetic field. Eger.J. Sci.Technol.(2008) 8: pp. 201 - 215.

5. Singh C.B

Hydromagnetic steady flow of viscous incompressible fluid between two parallel infinite plates under the influence of inclined magnetic field.
Kenya Journal of Science Series A Vol.12 No.1,2007 pp 1-8

6. Singh C.B

Hydromagnetic unsteady flow of a dusty viscous liquid through a channel with variable pressure gradient. International Journal of BioChemPhysics, Vol.13, No.1, August 2004 pp.80-89.

7. Singh C.B

Hyromagnetic steady flow of liquid between two parallel infinite plates under applied pressure gradient when upper plate is moving with constant velocity under the influence of inclined magnetic field. Kenya Journal of Science Series A(Accepted for publication).

8.Singh C.B., Ikinya C.M.

Optimal Use of Departmental facilities. Proceedings of the First In House Seminar March 2002. pp.35-38.

9.Singh C.B

Unsteady flow of Liquid through a channel with pressure gradient changing exponentially under the influence of inclined magnetic field. International Journal of BiochemPhysics. Vol. 10, 2000,pp 37-40.

10.Singh C.B

Unsteady Magneto-hydrodynamic Flow of Liquid Trough a channel under Variable Pressure Gradient. K.J.S Series A(1998) 11(1) 69-78.

11.Singh C.B

Magneto-hydrodynamic Unsteady Flow of a Dusty liquid through a channel Under the influence of inclined magnetic field. Internation Journal of BioChemPhysics, Vol.5 (Nos 1&2) 1996

12.Singh C.B

Magneto-hydrodynamic Steady Flow of Liquid Between Two Parallel Plates. Proceedings of Kenya Mathematics Society July 1993.

13.Singh C.B

Magneto-hydrodynamic Steady Flow of Viscous Incompressible Fluid between two parallel Infinite plates under the Influence of Inclined Magnetic Field. Proceedings of Kenya Society of Agricultural Engineers, 1992(presented).

14. Singh C.B.,Ram,P.C. , Singh U.S.

Hall Effects on Heat and Mass Transfer Flow through Porous Medium. Astrophysics and space science 100(1984) 45-51.

15.Singh C.B.,Ram P.C

Unsteady Magneto-hydrodynamic Channel Flow of Dusty Rivlin Erictiuon fluid.
Bulgarian Academy of Sciences, Theoretical and Applied Mechanics,
Sofia, 1979,X,NO.3.

16.Singh C.B., Pandey, K.S., Chaturvedi, N.

Flow of a Viscous Incompressible Fluid Along an Impulsively started
Infinite Plate with constant suction. Indian Engineer Vol.XXIII
No.6,June 1979.

17.Singh C.B.,Ram P.C

Unsteady Magneto-hydrodynamic fluid flow through a channel. Journal
of Scientific Research. B.H.U. (INDIA), Vol. XXVIII(2) 1977-78.

18.Singh C.B.,Ram P.C

Unsteady flow of an electrically conducting dusty viscous liquid
through a channel. Indian Journal of Pure and Applied Mathematics.
Vol.8%9(September 1977) pp.1022-1028.

19.Singh C.B.

Unsteady Magneto-hydrodynamic flow of Dusty fluid through a channel.
International Symposia in Mathematics, B.H.U.(INDIA)1976(Presented).

20.Singh C.B.

Unsteady motion of a conducting fluid through a square channel under
Transverse Magnetic Field. International Symposia in Mathematics,
Banaras Hindu University(INDIA) 1976(Presented).

21.Singh C.B., Pandey, K.S., Ram, P.C.

A note on the Temperature distribution of a Viscous Incompressible
Fluid in a channel Bounded by two parallel plates. Journal of Scientific
Research, B.H.U. (INDIA), Vol.XXIV(1-2), 1973-74.

22.Singh C.B.

Steady flow of viscous Incompressible Fluid between two parallel
Infinite plates in presence of Transverse Magnetic field.(A discussion on
Harmat Flow). 16 European Symposia on Nuclear Fission and plasma
Physics, Italy, 19879. Accepted for presentation.

23.Singh C.B.

Multiphase fluid flow in presence of Transverse Magnetic Field.Multiphase fluid flow Symposia, I.T.India 1987. Accepted for presentation.

24.Singh C.B.

MHD Powe Generation and Multiphase flow. Multiphase flow Symposia, B.H.U.,INDIA,1987. Accepted for presentation.

Papers under preparation

24.Singh C.B.

Unsteady Viscous Incompressible Fluid flow through a channel with Pressure Gradient changing under the influence of Inclined Magnetic Field.

25.Singh C.B.

Unsteady flow of viscous incompressible Fluid under the influence of transverse magnetic field, Laplace Transform Solutions.