

STAFF PROFILE

Name: DR. FRANCIS KIMANI GATHERI
Title/Qualifications: Bed (sc), Msc(Applied Mathematics) PhD (Applied Mathematics)
Department/Unit/Section: Mathematics
Contact Address:
Position: Senior Lecturer
Area of Specialization: Applied Mathematics (computational dynamics and analysis)
Research Interests: Turbulent Natural Convection in Enclosures: Numerical study
Professional affiliation:
Grants and Consultancies:
Publications (Please include the ISBN/ISSN Reference No.):
Recognitions: For teaching and facilitating courses at AVU-RMIT, Refereeing of Journals-JAGST-JKUAT and Kenya National Academy of Sciences, External/Internal Examiner for PhD Thesis and Msc thesis – KU & JKUAT – Research proposal vetting - JKUAT
Conference/Workshop Presentations:

Research and Publications

- 1.0 Francis K. Gatheri, Buoyancy Driven Natural Convection Heat Transfer in an Enclosure: paper submitted 2008 for publication by EAJPS
- 2.0 Francis K. Gatheri, The use of Mesh Generation Functions for the solution of Natural Convection Problems. East African Journal of Physical Sciences- vol.6 (1) 21-31, 2005
- 3.0 Francis K. Gatheri, Variable False Transient for the solution of Coupled Elliptic Equations. East African Journal of Physical Sciences – vol. 6 (2): 117, 2005
- 4.0 Segey, J.K., F. K. Gatheri and Kinyanjui M., Numerical Study of Free Convection Turbulent Heat Transfer in an Enclosure-Paper submitted 2007 for publication by JAGST-JKUAT
- 5.0 Segey, J.K., F.K. Gatheri and Kinyanjui, M., Numerical Study of Free Convection Turbulent Heat Transfer in an Enclosure, Energy Conversion and Management, volume/issue 45/15-16, pp 2582, 2004
- 6.0 F.K. Gatheri, Reizes, J. A., Leonardi, E. and Graham del Vahl Davis, Natural Convection in an Enclosure with Localized Heating and Cooling: A numerical Study, Heat Transfer 1994, G.F. Hewitt (ed) Vol.2 pp 361-3661 1994

Conferences/ Seminars/ Workshop Attended

a) Conferences attended and presented a paper

- 1.0 F. K. Gatheri Reizes, J.A., Leonardi, E. And Graham del Vahl Davis, The use of Variable False Transient Factors for the Solution of Natural Convection Problems. 5th Australian Heat and Mass Transfer. University of Queensland pp 68.6 1993
- 2.0 F.K. Gatheri, Reizes, J.A., Leonardi, E. and Graham del Vahl Davis, Natural Convection in an Enclosure with colliding Boundary Layers. 5th Australian Heat and Mass Transfer University of Queensland pp 69.1-69. 1993
- 3.0 F. K. Gatheri, Reizes, J. A., Leonardi, E. and Graham del Vahl Davis, Turbulent Natural Convection in an Enclosure with Localized Heating and Cooling: A Numerical Study: Tenth International Heat Transfer Conference, Brighton, UK, August 14-18, 1994
- 4.0 F. K. Gatheri, J. Reizes and E. Leonardi A parametric Study of Natural Convection in an Enclosure with Localized Heating and Cooling,. Focus on Maximum Utilization of Mechanical Engineering Resources for Industrial Development, Jomo Kenyatta University of Agriculture and Technology, 15-16th June 1997
- 5.0 F. K. Gatheri, J Reizes and E. Leonardi. Variable False Transient for the solution of Coupled Elliptic Equations. Research in Engineering for fast Industrial growth, Jomo Kenyatta University of Agriculture and Technology 7th – 8th June 1998

- 6.0 F. K. Gatheri The use of Mesh Generation for the Solution of Natural Convection Problems, Beyond 2000: The role of engineering Research in Industrial Development, Jomo Kenyatta University of Agriculture and Technology 10th – 11th June 1999
- 7.0 F.K. Gatheri: The Roll of Research in the University: Mada Hotel, 2008
- 8.0 F.K. Gatheri – Research Proposal Writing, Research week – KCAU, 2009

b) Conference and Workshop attended but did not present a paper

- 1) 3rd Australian Heat and Mass Transfer, University of New South Wales, 1991
- 2) Career Improvement Workshop in Mathematics and Computer Science 27th February- 4th March 2000, Chiromo Campus University of Nairobi
- 3) Focus on The Role of engineering Research for Industrial Development in the new millennium, Jomo Kenyatta University of Agriculture and Technology, 8th-9th June 2000.
- 4) Industrial Growth Through Co-ordination of Research Institution and the Manufacturing Sector, Jomo Kenyatta University of Agriculture and Technology, 7th-8th June 2001
- 5) Three-Dimension Buoyancy Driven Turbulent Natural Convection in an Enclosure with Ventilation-Paper presented at DAAD-Scholars Workshop/conference in Egerton University, 2002.