


ACADEMIC STAFF PROFESSIONAL PROFILE FORM

1. Personal Data

	
GODFREY KIBE MACHARIA	
Title/Qualifications	Dr. / PhD (Computational/Theoretical Chemistry) -awaiting graduation later in the year; M.Sc (Inorganic Chemistry), KU, 2000; B.Sc. KU, 1994.
Department	Chemistry
Contact Address	43844-00100, Nairobi, Kenya
Position	Tutorial Fellow
Area of specialization	Computational/Theoretical Chemistry
Research Interests	Computational chemistry and quantum chemistry, with particular reference to: <ul style="list-style-type: none">• Accurate calculations of structures and harmonic frequencies.• Understanding, evaluating and improving simple qualitative bonding models by using accurate quantitative models.• Economical methods of modelling the results of <i>ab initio</i> calculations. Teaching computational chemistry making use of computers in innovative ways.• Integrating Computational Chemistry into Undergraduate Chemistry Curriculum in Kenya.

2. Conference Presentation

S/No	Presenter	Title	City/Country	Date of Conference	Funding
1	G. Kibe Macharia	Study of the Mechanism of Acid Catalyzed Esterification, Poster presented	Durban/South Africa	3-8 th December 2006	
2	G. Kibe Macharia	Mechanism and Kinetics of the Esterification Reaction of Acetyl Chloride with Methanol: A Theoretical Study	Cape Town/South Africa	23 rd -27 th September 2007	