

DR. ALI MOHAMMED SALIM

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Department of Chemistry

ACADEMIC BACKGROUND

- Sept'78-July'81** University of Nairobi (K.U.C)
B. Ed (Science) Upper Second Class Honours
Mathematics and Chemistry
- Feb'85-Nov'86** International African Islamic University, Sudan, Arabic
and Islamic Studies
- Apri'1991** University of Nairobi
Master of Science-Physical Chemistry
ThesisTopi: Electrochemical and Physicochemical
Studies of Pyrodoxine hydrochloride (Vitamin B₆) in
Aqueous Solution at 25 ° C
- April 2006** University of KwaZuluNatal, Horward College
Campus, South Africa PhD. (Physic Chemistry)
ThesisTopic: The Effect of Antioxidants on the *PARA*-
Aminobenzoic Acid Photosensitised Formation of
Thymine Dimers and Singlet Oxygen
- Oct,2005-May2006** Post-doctorate Studies, Physical Chemistry at
University of KwaZulu-Natal, Horward College
Campus

WORKING EXPERIENCE

- July'81-Oct'87** High school teacher (Maths and Chemistry) at
Lamu Boys High School
Head of Department (Chemistry and Mathematics)
- Nov'89-Nov91** Graduate Assistant
Jomo Kenyatta University of Agriculture and
Technology (JKUAT)
P.O.BOX 62,000
Nairobi, Kenya
- Nov'91-Dec'93** Assistant Lecturer at JKUAT
- Dec'93 to date** Lecturer at JKUAT

DUTIES

Teaching
Preparation of Physical Chemistry Practical Manuals

Post-Graduate Co-ordinator for the Department of
Chemistry

2005 July-2006 While pursuing PhD. studies: Part-time Junior Lecturer
in Charge of Physical Chemistry Practical, University of
KwaZulu –Natal, Howard College Campus

DUTIES

Coordinating demonstrators during practical and
administration of the marks.

RESEARCH INTEREST

- 1) Photochemistry
- 2) Thermodynamics
- 3) Renewable source of energy

WORKSHOPS, CONFERENCES AND SEMINARS ATTENDED

- 1) Seminar on Environmental Studies at British Council in
Nairobi 1987
- 2) Gas Chromatography and HPLC, a seminar tour by Chemitrix
and Agilent Technologies at Royal Hotel, 267 Smith Street,
Durban, South Africa on 13th Sept, 2000
- 3) Symposium on Organic and Inorganic Photochemistry,
Pietermaritzburg, South Africa. 10th July 2002
- 4) HPLC troubleshooting, a Microsep workshop 13th
November, 2002, University of Natal, School of Pure and
Applied Chemistry, Durban, South Africa
- 5) Gas Chromatography and HPLC, a seminar tour by Chemitrix
and Agilent Technologies at Hilton Hotel, Durban, South on
23rd July 2003
- 6) SACI Research Colloquium, University of Natal,
Pietermaritzburg, Wednesday, 17th September 2003.

SEMINARS AND CONFERENCES PRESENTATION

- 1) International Symposium on Photoprotection, Krakow, Poland
9th May-22nd 2001. Presented a poster: The effect of
Antioxidants on *Para*-Aminobenzoic acid Photosensitised
reaction of thymine.
- 2) 36th Convention of the South African Chemical Institute, Port
Elizabeth, South Africa 1st July to 5 July 2002. Presented a
poster: The Effect of Vitamins on the *Para*-Aminobenzoic acid
Photosensitised Reaction of Thymine base.
- 3) Photosensitised Dimerisation of Thymine in the presence of
some antioxidant at The School of Pure and Applied Chemistry,

University of Natal 23rd May 2003.

- 4) XX IUPAC Symposium on Photochemistry, Granada (Spain) from 17th to 22nd July, 2004. Presented a poster: The Effect of *Para*-Aminobenzoic acid Photosensitised Reaction of Thymine base.
- 5) Faculty of Science Post-Graduate Student Research Day, Howard College Campus, 14th August 2004. “The Effect of *Para*-Aminobenzoic acid Photosensitised Reaction of Thymine base”
- 6) 11th Congress of The European Society for Photobiology, Aix-Les-Bains, France, 4th September-8th September 2005. Poster, The Effect of Antioxidants on *Para*-Aminobenzoic acid Photosensitized Formation of Singlet Oxygen.
- 7) Faculty of Science and Agriculture Research Symposium, University of KwaZulu, Howard College Campus, Natal, Durban 20th September 2005. The effect of Antioxidants on *Para*-Aminobenzoic acid Photosensitized Formation of Singlet Oxygen.
- 8) Workshop For Mainstreaming HIV/AIDS in the Faculty of Science Programmes held on 24th April, 2007 at JKUAT

EXAMINATION PROJECTS AND PUBLICATIONS

Submitted three papers from PhD thesis for publication.

STUDENTS’ SUPERVISION AT JKUAT

Project Students

- a) Mr. Anselm Riungu:
Title: Bioethanol Production from Wasted Crops and Crop Residues.
i.e Production of Ethanol from crop residues of rice and wheat for purpose of blending with petrol for automobile use
- b) Ms. Joyce Fwamba:
Title: Determination of Various Trace Elements and Pollutants in Some Legume Leaves.
i.e. determining the quantity of useful and harmful elements in locally grown plants

6 COMPUTER LITERACY

- 1)- Literate with most of Desktop Software programmes
- 2)- Certificate of Attendance in Web Design Course from Information Technology Department, University of Natal
- 3)- Certificate of Attendance in International Computer Driving License (ICDL) from ITD, University of Natal

7 ACADEMIC AWARDS

- 1) National Research Foundation, South Africa.
- 2) University of Natal Graduate Assistantship Award 1999-2006

8 SOCIETY AND MEMBERSHIP

- 1) University of Natal Chemical Society (NUCHEM)
- 2) South African Chemical Institute