

## **CURRICULUM VITE**

### **Dr Maher O. El-Ghossain**



### **ASSOCIATE PROFESSOR OF PHYSICS**

**Birth:** Febbruary 28, 1959, Gaza, Palestine.

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### **FIELD**

**Theoretical and Experimental Nuclear Physics.**

### **RESEARCH INTERESTS**

**Nuclear Physics , Radiation Measurements, Modern Physics, Atomic and Molecular Physics, Computational physics, Energy (solar, nuclear, ...), Synchrotron Radiation, Educational Physics, and Astrophysics .**

### **POSITION**

**Associate professor of physics at the Islamic University of Gaza (IUG).**

### **COURSE TEACHING**

**General Physics (A ,B), Nuclear Physics (I, II), Classical Mechanics,  
Modern Physics, Atomic and Molecular Physics, Computational Physics.**

### **EDUCATION**

1. 1981, B. Sc. in Physics, from Cairo, Egypt.
2. 1986, M. Sc. in Experimental Nuclear Physics ,  
from University of Saskatchewan, Canada (linac).  
Master Thesis: “ Electropion Production From  $^3\text{He}$ ”.  
Thesis advisor : D. M. Skopik.
3. 1996, Ph.D. in Theoretical Nuclear Physics,  
from Texas Tech University,  
Ph.D. Dissertation: “ Pion Double Charge Exchange Formalism”  
Dissertation Advisors: M.A.K. Lodhi, And W.R.Gibbs.

### **TEACHING EXPERIENCE**

- 1) 1981-1983, Teaching at the Islamic University of Gaza , Palestine,  
as a laboratory Demonstrator.
- 2) 1983-1986, Teaching assistant at Saskatchewan university,  
Canada.
- 3) 1986-1989, Teaching at the Islamic University of Gaza as a  
lecturer.
- 4) 1989-1993, Teaching at the New Mexico State University as A  
laboratory Instructor.
- 5) 1993-1996, Teaching at Texas Tech University as a laboratory  
instructor.
- 6) 1996-2007, Teaching at the Islamic University of Gaza as assistant  
professor.
- 7) 2007- present , Teaching at the Islamic University of Gaza as  
associate professor.

### **WORK AND RESEARCH EXPERIENCE**

- 1) Worked at the Linear Accelerator (LINAC) of University of  
Saskatchewan , Canada, (1983-1986).
- 2) Worked at the Los Alamos National Laboratory (LAMPF),  
NMSU, USA, (1989-1993).

### **CONFERENCES**

Name and place	Year
WRNPPC, Canada	1985
WRNPPC, Canada	1986
APS Meeting, Santa Fe, USA	1993
APS Meeting, Lubbock, TX, USA	1995
APS Meeting, Abilene, TX, USA	1996
Radiation Protection, PAE, The Islamic University of Gaza	1998
WRNPC , Canada	2/2000
Second Symposium in Physics, Al-Quads University , Abu Dies, Palestine	4/1999
School of Synchrotron Radiation , Italy	11/2000
The First International Conference For Science And Development Faculty of Sciences, The Islamic University of Gaza	1-2 March 2005
Fifth Symposium on Use of Nuclear Techniques in Environmental Studies, Yarmouk University ,	12 – 14 September 2005
4 <sup>th</sup> SESAME Users meeting Program	6-8 December , 2005, Amman Jordon
The First International Conference Of Natural And Applied Sciences Al-Aqsa Univesity, gaza, Palestine	May 23-24- 2006
The Second International Conference For Science And Development Faculty of Sciences, The Islamic University of Gaza	6-7 March 2007
The scientific physics day	4 November , 2009
THIRD LINKSCREEM Cross-Sectional HPC workshop, American University Cairo, Cairo University , Cairo	11-15 November 2012.

### **POSITIONS OCCUPIED**

- Head of the physics department at the Islamic University of Gaza from September 2001 to September 2002.
- Organizing and heading the committee for physics days activities two and three.
- Member of the Committee of Ph.D. program plan and proposal.
- Internal Examiner for five M.SC. Students for the M.SC degree at the Islamic University of Gaza.
- I have planed and worked out the new field of optometry in the college of science.
- Supervisor for FOUR graduate students for M.Sc thesis of Graduate studies :
  - 1) " Radiation Measurement in soil in Middle Region of Gaza"  
By  
Raed Mohamed Abu Saleh
  - 2) "Measurements of Radiation in Water in Gaza Al-Nasser" By  
Abedalgader Ahmed Abu Shammala
  - 3)"Medical Effects of Radiation Interactions" By Mai Yasser El-Shaer
  - 4)"Radon Exhalation Rate From Destroyed Building Materials in Gaza Palestine" By Shaher Hany Serdah

## PUBLICATIONS

1. W. R. Gibbs, **M. O. El-Ghossain** and W. B. Kaufmann, "Pion Double Charge Exchange Operator", **Phys. Rev. C48**, 1546 (1993).
2. J. D. Johnson, et. al., **M. O. El-Ghossain** "Search for h bound state in pion DCX  $^{18}\text{O}$ ", **Phys. Rev. C47**, 2571 (1993).
3. D.P. Beatty, et. al., **M. O. El-Ghossain**, "Pion Double Charge Exchange on  $^{16}\text{O}$  above delta resonance", **Phys. Rev. C48** , 1232 (1993).
4. Mutaz Nuserite and M.A.K. Lodhi, **M. O. El-Ghossain**, et. al. " Energy dependence of pion double Charge exchange". **Phys Rev. C58**, 2292 (1998).
5. **M. O. El-Ghossain**, W. R. Gibbs, M. A. K. Lodhi, and M. H. Nuserite "The Pion Double Charge exchange Reaction On Calcium Isotopes And Carbon At Medium Energies", **The Islamic University Journal** , Vol 8, No. 1, 77 ( January 2000).
6. **M. O. El-Ghossain**, "The Pion Double Charge Exchange Angular Dependence for The Reaction On Fe, Cr, and Ti At 30 MeV, 50 MeV, and 140 MeV" **Hadronic Journal** , Volume 25, Number 6, 655, (2002) .
7. **M. O. El-Ghossain** " The Angular Distribution of Pion Double Charge Exchange Reaction on Calcium Isotopes, At 60 MeV, 120 MeV, and 180 MeV. **The Islamic University Journal**, Volume 10, No. 11 ,p173-p183 , (2003).
8. **M. O. El-Ghossain**, " Radiation Measurements in soil in Berage Using Gamma Detector " **Hadronic Journal Supplement 19**, 333 -340 (2004).
9. **M. O. El-Ghossain**, and Raed Abu Saleh, " Radiation Measurements in soil in the middle of Gaza-Strip using different type of detectors". **The Islamic University Journal**, Volume 15, No. 1 , p23 to p 37 , (2007).
10. **M. O. El-Ghossain**, and Raed Abu Saleh, " Radiation Measurements in soil of Nusierate in the middle of Gaza-Strip using Nuclear track detector CR-39 and Electra Plus" Accepted in Al-Aqsa Journal.
11. **M. O. El-Ghossain** , " Radiation Measurements in soil of Der-AlBalah in the middle of Gaza-Strip using Nuclear track detector CR-39 " **ABHATH AL-YARMOUK**, Vol. 16, No.2 , 2007.
12. **M. O. El-Ghossain**, Abedalqader A. Abu Shammala , "RadiationMeasurements in tap water in Gaza Strip, (Al-Naser Area )",

13. [Maher O. EL-GHOSSAIN](#), Zeyad J. YASSEEN, 'A Comparison Study of the Interaction of Progesterone and Testosterone Drugs with Human Serum Albumin: A Fluorescence Quenching Study, *Journal of Applied Biological Sciences* 9 (1): 20-24, 2015
14. Zeyad J. YASSEEN, [Maher O. EL-GHOSSAIN](#), "Studies on Binding of Widely used Drugs with Human Serum Albumin at Different Temperatures and PHs" *Journal of Biomedical Sciences* ISSN 2254-609X, 2016 ,Vol. 5, No. 3:19