

# CURRICULUM VITAE

## MOHAMMAD KHALIL EL-SAID

January, 2015

### PERSONAL DATA:

1. Full Name : Mohammad Khalil El-Said  
2. Place : Nablus, West Bank, Palestine.  
3. Nationality : Palestinian .  
4. Mailing Address: Department of Physics,  
An-Najah National University  
Nablus, West Bank  
Palestine.  
Tel.: University : 00972 (9) 2345113-7/ (9) 2341003; Ext 2317  
Home : :00972 (2) 2960630  
Mobile : : 0597036348  
Fax : : 00972 (9) 2345982  
E-mail : [mkelsaid@najah.edu](mailto:mkelsaid@najah.edu)
5. Marital Status : Married ( I have Four Children )

### FIELD OF STUDY:

#### THEORETICAL PHYSICS:

#### Condensed Matter Theory:

#### I. Nanoscience and Nanotechnology:

##### A) Electronic Structure of Semiconductors : ( GaAs /Al GaAs )

- 1) Quantum Wells( QWs) ,Quantum Well Wires (QWWs), Quantum Dots ( QDs) and Quantum Rings ( QRs )
- 2) Graphene ,Carbon Nanotubes and Nanoribbons
- 3) Effects of Magnetic and Electric fields on impurity binding energies in : QWs, QWWs and QDs
- 4) Polarizabilities of QWs and QWWs

##### B) Solid State Quantum Computer : Quantum Computing with Electrons in Quantum Dots

## C) Optical Properties of Semiconductors

- 1) Photoionization cross sections of QWs and QWWs
- 2) Absorption Coefficients of QWs and QWWs.
- 3) Effects of Applied Magnetic Fields on the Absorption Coefficient and Photoionization of GaAs/AlGaAs heterostructure material.

II. Mathematical Methods in Quantum Mechanics: We have used various methods in solving the impurity Hamiltonian in 0D, 1D, and 2D systems

1. 1/N Expansion Technique.
2. WKB-Approximation.
3. Perturbation Theory.
4. Variational method.
5. Exact / Diagonalization Methods.

### ACADEMIC QUALIFICATIONS:

1. "Doctor of Philosophy" (Ph.D. in Physics), Middle East Technical University (METU) Thesis "Properties of Shallow Impurities in Quantum Wells" (Theoretical Work), Ankara, Turkey, 1986-1990.
2. "Master of Science" (M.Sc. in Physics) METU, Thesis "Quarkonium With WKB Approximation, (Theoretical Work), Ankara, 1984-1985.
3. "Bachelor of Science" (B.Sc. in Physics). University of Jordan, Amman Jordan, 1977-1981.

### PRESENT POSITION:

Full Professor and Head of Physics Department, Faculty of Sciences, University of Najah, Nablus Palestine.

### RESEARCH EXPERIENCE:

I have done various contributions to the subject **Semiconductor Nanostructures** by solving the Impurity Hamiltonian for systems with reduced dimensions under the effects of applied Magnetic Field (Zeeman Effect) and Electric Field (Stark Effect). Different quantum methods are implemented to calculate the eigenenergies of the systems with different Dimensionalities. We have also studied the electronic and optical properties of semiconductor nanostructures like:

- 1) Quantum Wells (2D),
- 2) Quantum Well Wires (1D)
- 3) Quantum Dots (0D).
- 4) Quantum Rings (QRs)
- 5) Graphene Nanotubes and Nanoribbons

These **Nanostructure Systems**, which have characteristic lengths comparable to the electron Compton wavelength, are considered, in deed, as Quantum **LABS** where you can design artificially the desired quantum systems and test the laws of Quantum Physics.

#### **PUBLICATIONS IN REVIEWED JOURNALS:**

**25 = Single Author , 11= Joint Authors and 4=Three Authors**

#### **Ph.D. THESIS [ 1-6 ]**

1. M. El-Said and M. Tomak, Phys. Rev. B42, 3129 (1990).  
"Polarizabilities of Shallow Donors in Quantum Well".
2. M. El-Said and M. Tomak, J.Phys. Chem. Solids, 52, 603 (1991).  
"Photoionization of Impurities in Infinite-Barrier Quantum Wells".
3. M. El-Said and M. Tomak, IL Nuovo Cimento, 13, 165 (1991).  
"Magnetic-Field Dependence of Hydrogenic Impurity States in Quantum Well Wire".
4. M. El-Said and M. Tomak, Turkish Journal of Physics, 15, 364 (1991).  
"Photoionization of Finite-Barrier Quantum Well".
5. M. El-Said and M. Tomak, Solid State Commun 82, 721 (1992).  
"Photoionization of Impurities in Quantum Well".
6. M. El-Said and M. Tomak, Phys. Status Solidi (b) 171, k29 (1992).  
"Polarizabilities of Donors in QWW".

#### **ASSOCIATE PROFESSORSHIP [ 7-11 ]**

7. M. Halilsoy and M. El-Said, General Relativity and Gravitation 25, 81 (1993).  
"The Physical Interpretation of Painleve Transcendent Space time".
8. M. El-Said, Physica B202, 202 (1994).  
"Effects of Applied Magnetic Field on the Energy Levels of Shallow Donors in Parabolic Quantum Dot".
9. M. El-Said Semiconductor Science and Technology, 9, 272 (1994).  
"The Ground-State of an Exciton in a Parabolic Quantum Dot".
10. M. El-Said, Physica Status Solidi b184, 385 (1994).

"The Energy Spectra of Exciton in a Harmonic Quantum Dot."

11. M. El-Said, Semiconductor Science and Technology 9, 1787 (1994).  
"The Magneto-absorption Spectra of Donors in Quantum Well Wire".

**PROFESSORSHIP FROM EMU [ 12- 24 ]**

12. M. El-Said and K.F. Ilaiwi, Physica Status Solidi b187, 93 (1995).  
"Photoionization of Shallow Donor Impurities in Finite-Barrier Quantum Wells".
13. M. El-Said, Journal de Physique I (France) 5, 1027 (15).  
"Energy States of Two Electrons in a Parabolic Quantum Dot in a Magnetic Field".
14. M. El-Said, Semiconductor Sci. Technol. 10, 1310 (1995).  
"Two-Electron Quantum Dots in a Magnetic Field".
15. M. El-Said, Turkish J. Physics 19, 1542 (1995).  
"Donors and Excitons in Parabolic Quantum Dots: An Algebraic Operator Method".
16. M. El-Said, Solid State Commun. 97, 971 (1996).  
"Study of the Energy Level-Crossing in GaAs/Al<sub>x</sub>GaAs<sub>1-x</sub> Quantum Dots".
17. M. El-Said, Physica Status Solidi, b193, 105 (1996).  
"Ground-State Properties of Quantum Dots with a Magnetic Field".
18. M. Abu Saa and M. El-Said, Physica Scripta 54, 309 (1996).  
"The Energy Spectra of Two Interacting Electrons in Parabolic Quantum Dots in the Presence of a Magnetic Field: Interpolation Approach".
19. M. El-Said, Dirasat, (Jordan) 23, 284 (1996).  
"The Eigenenergy Spectrum of A Quantum Dot Presented in A Magnetic Field".
20. M. El-Said, Turkish Journal of Physics, 21, 655 (1997).  
"The Photoionization Cross-Section of Donors in the Quantum Well Wire".
21. M. El-Said and M. Abu Saa, Physica Status Solidi, 203, 357 (1997) Interacting Electrons  
in Quantum Dot in The Presence of a Magnetic Field".
22. M. El-Said, Superlattices and Microstructures, 23, 1237 (1998). "Two Interacting Electrons  
in Quantum Dot".
23. M. El-Said and M. Abu Saa, Turkish Journal of Physics, 22, 885 (1998). "The Energy  
Spectra of GaAs/AlGaAs Quantum Dots".
24. M. El-Said, Communication in Theoretical Physics, 31, 321 (1999). "The Spectra of Two-  
Electron Quantum Dot : 1/N Expansion Method".

## AFTER PROFESSORSHIP

25. M. El-Said, Phys. Rev. B, 61,13026 (2000), “Spectroscopic Structure of Two Interacting Electrons in A Quantum Dot by shifted 1/N Expansion Method”.
26. M. El-Said, Acta Physica, 97, 1023 (2000). Ground-States Structure of Two Electron Quantum Dot.

## KFUPM / HAIL COMMUNITY COLLEGE / UNIVERSITY OF HAIL

27. M. El-Said, AJSE, 26, 33 (2001) (The Arabian Journal for Science and Technology) 2000 [cited]. “Electronic Properties of Two Interacting Electrons Confined in a Quantum Dot in a Magnetic Field”.
28. M. El-Said, Chinese Journal of Physics 40 , 315 (2002), The Effects of Dimensionality on the Spectral Properties of a Two Electron Quantum Dot .
29. M. El-Said, Physica E. Low Dimensional Systems and Nanostructure,14,323 (2002) The Spectral Properties of Two Electron Quantum Dot.
30. M. El-Said, Turkish Journal of Physics 26, 331 (2002) , “The spectral properties of two interacting electrons in a quantum dot”.
31. M. El-Said, Kuwait Journal of Science and Engineering 30, 57, (2003) , “The Energy level Structures of Two interacting Electrons in a quantum Dot”.
32. M. El-Said, Arabian Gulf Journal of Scientific research 22, 21 (2004), “The Spectra of Two Electron Quantum dot :Effects of Dimensionality.
33. M. El-Said , Physica Scripta , **75** , 436 (2007 ) , “ The ground State electronic properties of a quantum dot with a magnetic field
34. M. El-Said et. al. , **Journal of Computational and Theoretical Nanoscience 5( 2008) 1**, “Spin Singlet-Triplet energy Splitting in the Ground State of a Quantum dot with a magnetic field: effect of dimensionality “
35. M.El-Said . , The Energy Spectrum of Two Electron Quantum Dot , Turkish Journal of Physics **32** , 79 , 2008.
- 36.M.Elsaid et al. , The Ground State Properties of Two-dimensional Quantum Dot Helium in a magnetic Field , Indian Journal of Pure and Applied Physics **46** , 876 (2008) .
37. M.Elsaid et al.,Two-Electron Quantum Dot :Singlet-triplet Splitting , King AbdulAziz University :Journal of Science **20** , **July (2009)** .

38) M.Elsaid et al., The energy eigenvalues of the quantum dot helium using the shifted  $1/N$  expansion method , Dirasat **36** ( no1 ), 38 (2009 )

**Work in Progress :**

39) . M.Elsaid et al , , Spin Singlet-Triplet Exchange Energy in a Semiconductor Quantum Dot ( Master thesis by Ayham Shaer , In Preparation )

40) M.Elsaid et al , ,The Heat Capacity of a Two-Electron Quantum Dot in a Magnetic Field by Diagonalization Method ( In Preparation ).

**LIST OF CITATIONS**

- 1- P.S. Drouvelis, P. Schmelcher and F. K. Diakonon, J. Physics: condensed matter 16, 3633 (2004)
- 2- H. Sari, I. Sokmen and U. Yesigul, J. Physics D – Applied Physics 37, 674 (2004). [2]
- 3- P.S. Drouvelis, P. Schmelcher and F. K. Diakonon, Phys. Rev. B 69, 035333 (2004).
- 4- A- Sinha, J. Math. Chemistry 34, 201 (2003).
- 5- L. L. Sun, F. C. Ma and S.S. Li, J. Applied Physics 94, 5844 (2003).
- 6- Y. El-Hasan aoui, and I. Zarkani, Physics of Low Dimensional Structures 5-6, 117 (2003).
- 7- O. Mustafa, Czechoslovak Journal of Physics 53, 433 (2003).
- 8- A. Zounoubi, I. Zarkani and K. El-Messaoudi, Physics Letters A312, 220 (2003).
- 9- Y. El-Hasnaoui, I. Zorkani, Physics of Low-Dimensional structures 1-2, 157 (2003). [2]
- 10- I. D. Mikhailov, F. J. Betancur and R. A. Escorcia, Phys. Rev. B 67, 115317 (2003).
- 11- H. Ham, H. N. Spector, J. Applied of Physics 93, 3900 (2003). [2]
- 12- H. Ham and C. J. Lee, Journal of Korean Physical Society 42 S289, S688 (2003). [4]
- 13- A. Sali, M. Fliyou, H. Satory and H. Loumrhari, J. Physics and Chemistry of Solids 64, 31 (2003) [3]

- 14- S. M. Reimann and M. Manninen, Rev. of Modern Physcis 49, 721 (2002)
- 15- G. Jayam and K. Navaneethakrishnan, International Journal of Modern Physics B16, 3737 (2002) [2]
- 16- A. Sali, H. Satoro, M. Fliyou and H. Loumrhari, Physica Status Solidi B232, 209 (2002) [3]
- 17- Y. El-Sasnaoui, I. Zorkani and R. Belhissi, Physics of Low-Dimensional structures 7-8, 131 (2002). [2]
- 18- H. Satori, A. Sali and K. Satori, Physica E14 184(2002).
- 19- Jayam, K. Navaneethakrishnan, Solid State Communications 122, 433 (2002). [2]
- 20- L. Filali, and I. Zorkani, Physica Scripta 40, 315(2002). [2]
- 21- E. Kasapoglu, H. Sari and I. Sokmen, Physica B315, 261 (2002).
- 22- A. Zounoubi, K. El-Messaoudi, I-Zorkani and A. Jorio, superlattices and Microstructures 30, 189 (2001).
- 23- R. Pino and M. Villalba, J. Physics: Condensed Mattter 13, 11651 (2001)
- 24- A. Sinha and N. Nag, J. Math. Chemistry 29, 267 (2001).
- 25- H. Satori, M. Fliyou, M. Zerfaoui and A. Nougaoi, Physics of Low-Dimensional structures 7-8, 133 (2001).
- 26- M. Barnoussi, R. Charrou, M. Fliyou and S. Sayouri, Physics of Low-Dimensional structures 7-8 133 (2001).
- 27- H. Satori, A. Sali, M. Fliyou and A. Nougaoi, Physics of Low-Dimensional structures 7-8, 141 (2001).
- 28- A. Sinha , R. Roy choudhury and Y.P. Varshni, Canadian J. Physics 79, 939 (2001).
- 29- A.A. Avestisyan, A. P. Dstyan, E. M. Kazaryan and B. G. Poghosyan, Physica Status Solidi 225, 423 (2001).
- 30- C.A. Dugue, A. Montes and A. L. Morales, Physica B302, 84 (2001)
- 31- I. D. Mikhailov, F. J. Betancur and L. F. Carcia Physica Status Solidi B224, 757 (2001).
- 32- R. Charrou, M. Bouhassoune, M. Fliyou and A. Nougano, Physica B293, 137 (2000).

- 33- R. Charrouf, M. Bouhassoune, M. Fliyou, D. Bria and A. Nougano, *J. Applied Physics* 88, 3514 (2000).
- 34- A. Sinha, *Int. J. Quantum Chemistry* 79, 267 (2000).
- 35- P. A. Maksym, H. Imamura, G. P. Mallon and H. Aoki, *Journal of Physics: Condensed Matter* 12, R299 (2000).
- 36- A. Sinha, R. Roy choudhury and Y.P. Varshni, *Canadian J. Physics* 78, 141 (2000)
- 37- R. Pino, *European Physical Journal* B13, 723 (2000).
- 38- I. Zorkani and L. Filar, *Physica Status Solidi* B215, 999 (1999) [2]
- 39- I. Zorkani, A. Mdaa, and R. Elkhanifer, *Physica Status solidi* B215, 1005 (1999). [2]
- 40- O. Mustafa and M. Odeh, *J. Physics A: Mathematical and General* A32, 6653 (1999).
- 41- P. Exner and S. A. Vogulter, *J. Mathematical Physics* 40, 4630 (1999).
- 42- I.D. Mikhalov and F.J. Betancur, *Physico Status Solidi* B213, 325 (1999).
- 43- A. Sinha and R. Roychoudhury, *Int. J. Quantum Chemistry* 73, 497 (1999).
- 44- A Sali, M. Fliyou, L. Roubi and H. Loumrhari, *J. Physics: Condensed Matter*, 11, 2427 (1999). [2]
- 45- A Sali, M. Fliyou, H. Sari and H.Loumrahi *Physica Status Solid* B211, 661 (1999).
- 46- G.N. Carneiro and G.Weber, *Physical Review* B58, 7829 (1998).
- 47- A. Sali, M. Fliyou and H. Loumrhari *Journal of Physics and Chemsitry* 59, 625 (1998). [2]
- 48- S. Klama and E. G. Mischchenko, *J. Physics: Condensed Matter* 10, 3411 (1998).
- 49- Y. P. Varshni, *Superlattices and Microstructures* 23, 145 (1998). [2]
- 50- C.Y. Chen, P.W. Jin and D. L. Lin, *Modern Physics Letters* B11, 1197 (1997).
- 51- Z. X. Liu, Y. G. Wend, J. J. Shi, Z.J. Wang and S.H. Pan, *Acta-Physica Sinica-Overseas Edition* 7, 28 (1998).
- 52- G.C. Papavassilov, *Progress in Solid State Chemistry* 25, 125 (1997).
- 53- O. Mustafa and J. Barakat, *Commun. In Theor. Physics* 28, 257 (1997).



- 54- C.Y. Chen, W.S.Li and P.W. Jin, Commun. In Theory Physics 28, 9 (1997).
- 55- F.A.P. Osorio, A.N. Borges, A.A. Caparica and J.R. Leite, Solid State Commun. 103 375 (1997).
- 56- A. Sali, M. Fliyou and H. Loumrhari, Physica B233, 196 (1997). [2]
- 57- O. Olendski, C.S. Kim, O.H. Chung and CS. Lee, Physical Review B55, 9834 (1997). [2]
- 58- A. Sali, M. Fliyou and H. Loumrhari, Physica Status Solid 200, 145 (1997).
- 59- F.B. Pedersen and Y.C. Chang, Phys. Rev. B55, 4580 (1997).
- 60- H.H. Von Grunber, Phys. Rev. B55, 2293 (1997). [2]
- 61- T. Szwacka, J. Physics: Condensed Matter 8, 10521 (1996). [2]
- 62- K.F. Ilaiwi, Superlattices and Microstructures 20, 173 (1996). [2]
- 63- G. P. He, Y.C. Zhou and Y.Z. Fand, Solid State Commun. 98, 1069 (1996).
- 64- K.F. Ilaiwi, Physisca Status Solidi B193, 97 (1996).
- 65- H.T. Cao and D.B.T. Thoai, Solid State Commun. 97, 643 (1996). [2]
- 66- L. Quiroga, A. Camacho and A. Gonzalez, Physica Status Solidi 7, 7517(1995).
- 67- V. Marayani and B. Sukumar, Solid State Commun. 90, 575 (1994).
- 68- A. El anagovan and K. Navaneethakrishnan, Physical Rev. B48, 7986 (1993). [2]
- 69- A. El anagovan and K. Navaneethakrishnan, J. Physics Condensed Matter 5, 4021 (1993) [2]
- 70- S. M. Martina and B. Sukumar, Solid State Commun. 85, 623 (1993).
- 71- A. Elangovan and Navaneethakrishrian, Solid State Commun. 83, 635 (1992).
- 72- A. Elangovan and Navaneethakrishrian, Solid State Commun. 83, 635 (1992).

\*This citation is up to 18<sup>th</sup> June 2004.

[ # ] It indicates the number of citations; otherwise the citation is one.

\*\*\* The total number of citations done by other authors ( up to 2004 ) is **95**.

**Remark: The total number of citations by other authors currently ( 2009 ) is : 150 .**

**\*\*\*** The complete list of the citations can be provided by the Author upon request.

**\*\*\*** The citations search can be done by using the short name for the author as : M.El-Said / M.Elsaid/Mohammad Elsaid .

**NUMBER OF CITATIONS ARE : 150**

**SEMINARS:**

1. Quantum Heterostructures ( 2D ), Physics Department , EMU , 1992 .
2. Quantum Well Wires ( 1D ), Physics Department , EMU , 1995 .
3. Quantum Dot Atoms ( 0D), Physics Department , KFUPM , March , 2005, ( Invited Talk )
4. Semiconductor Nanostructures I: Theory, Department of Sciences, HCC, March, 2005.
5. Semiconductor Nanostructures II. Applications, Department of Sciences, HCC, March, 2005.

**AWARDS :**

A “Distinguished in Teaching” AWARD, June, 2002, HCC.

An “Excellence of Research” AWARD, June ,2003 , HCC .

**ADMINISTRATIVE ,COORDINATION AND ASSIGNMENT:**

**I) At HCC , Saudi Arabia .**

1. A coordinator for summer semester in 2002 at HCC.
2. A summer assignment to develop the “Foundation Programme” at HCC, in the cooperation with Dr. Ali Kanso.
3. A summer assignment 2004, at HCC.
4. A summer coordinator for Science Department , 2007.
5. Chairman of Physics Dept., Feb.2007-Continue.
6. A member in the SCIENTIFIC COUNCIL ( for few months ) of University of Hail.

7. A member in the Faculty Affairs Committee for EIGHT years at University of Hail. member in the ACADEMIC Committee for TWO years at University of Hail.

II. At An- Najah National University , Head of Physics Department 2015- present.

### **PRESENT RESEARCH WORK:**

Currently , I am investigating the electronic structure of the: GaAs / AlGaAs Quantum Dots (QDs) , Graphene and Nanotube systems.

### **MASTER THESES:**

I have supervised the following Master theses:

1. Muayyad Abu Saa "Interacting Electrons Confined in a Quantum Dot in the Presence of a Magnetic Field". EMU, Gazi Mağusa, May 1995.
2. Feyzullah Gündoğdu "Quantum Wells in Semiconductor Heterostructures", EMU, Gazi Mağusa, October 1998.
3. Ali Çelebioğlu "Magnetoexcitons in Quantum Wells, EMU, Gazi Mağusa, October 2000.
4. Asmahan Teryaqi , Electronic Structure of Graphene and Carbon Nanotube , 2013 .
5. Ayham Shaer , The Thermal Properties of Two Electron Quantum Dot in a magnetic Field by Variational Method ( In Preparation, 2015 )
6. Ishtiyag , (the thesis is in progress, 2015) ..
7. Faten Bzour (the thesis in Progress , 2015) .

### **TEACHING EXPERIENCE:**

#### **I- GRADUATE COURSES TAUGHT:**

1. Quantum Mechanics I: Non-Relativistic. ( Master Level )
2. Solid State Physics I. ( Master Level )
3. Solid State Physics II ( Master Level )
8. Nanoscience and Nanotechnology ( Master Level )
9. Mathematical Physics ( Master Level )
10. Advance Solid State Physics ( Ph D Level )

11. Physics of Semiconductors ( Ph D Level )

## **II- UNDERGRADUATE COURSES:**

I have taught the following courses in: Math, Physics and Engineering:

### **PHYSICS COURSES**

Gen.Physics I  
Gen. Physics II  
Modern Physics  
Quantum Mechanics I  
Quantum Mechanics II  
Mathematical Physics I  
Mathematical Physics II  
Classical Mechanics  
Electromagnetic Theory  
Solid State physics  
Research Methods

### **MATH. COURSES:**

Math 000 (Foundation)  
Math 001  
Math 002  
Calculus I  
Calculus II : Applied Math.

### **ENGINEERING COURSES:**

Thermodynamics ME203

### **CONFERENCES and WORKSHOPS ATTENDED:**

1. International Conference on Theoretical Physics, Çukurova, Adana, Turkey, September 1986.
2. International Conference on Ion Beam Interactions with Solids, METU, Ankara, Turkey, 1988.
3. Spring College on Condensed Matter on "Physics of Low-Dimensional Semiconductor Structures", ICTP, (23 April-15 June 1990), Trieste, Italy.
4. Workshop on Nanotechnologies and Applications ,KACST, January ,2006,Riyadh, Saudi Arabia.

5. Workshop on Research Development organized by SCITEC at ALKHOBAR, 8-9 Dec , 2007
6. “ **Academic Self Assessment**“ April 28- May 2, 2007.Organized by King Abdulaziz University , Quality Programs for Faculty Development, held at the University of Hail (UOH ) Hail,Saudi Arabia
7. The 4<sup>th</sup> meeting of the Saudi Physical Society ,KACST, Riyadh, Nov., 2008.
- 8) Chinese Experience in Nano Industry , organized by King Abdullah Institute for Nanotechnology ( KAIN ) at King Saud University ( KSU ) , Riyadh ,2008 .
- 9) Int.Conference on Nanotechnology , King Abdulaziz University (KAU ) , Jeddah ,2008.
- 10.The First International Palestinian Conference on Nanotechnology for Advanced Maerials, 26-28 March , 2012 , An-Najah National University , Nablus , Palestine.
- 11) Workshop on Computing in Science and Engineering 14 / March / 2015 An-Najah National University , Lecture Title :“ Energy Spectra of Two electron quantum Dot by Exact Diagonalization Method .”

**STATEMENT OF MAJOR ACHIEVEMENTS IN RESEARCH, TEACHING AND SERVICES TO THE COMMUNITY:**

I completed nine successful years contributing significantly in the entire life of the college. I have been rated excellent in teaching by my students which I feel a great honour. I am capable of teaching a wide range of different courses. I have offered my services in the summer during all these years and would like to do so in the years to come. Despite having the full teaching load, I have been extremely active in my research and as a result I have produced a number of high quality research publications some of which were published in AJSE.

My field of research is in the very popular area of semiconductor nanostructure in Solid State Physics. I have put great efforts to understand and contribute to the theory of semiconductor nanostructures. My achievements in research and teaching are reflected in the papers and the citations that I have published, in the graduate courses, in the Master Theses and in the seminars that I have presented. In addition I have supervised Master Degree thesis work.

I conduct frequent talks and communications with my colleagues at engineering and science departments discussing the importance of this research topic for both areas. I present my seminar in an introductory form to make the semiconductor nanostructure subject accessible for all our students. I have had very good relations with many researchers in different institutes around the world. I strongly believe that these research achievements are also important in supporting the existing academic reputation of our institution.

All these years I have contributed in various standing and ad hoc committees at the college level.

I have been awarded "Excellence in Teaching" and "Excellence in Research" at HCC /KFUPM during 2002 and 2003 , respectively.

**WORK EXPERIENCE:**

1. 2.1.1987-7.10.1990, Research Assistant, Department of Physics, METU, Ankara, Turkey.
2. 7.10.1990-31.1.1993, Assist. Professor, Department of Physics, EMU, G. Mağusa, N.Cyprus, Turkey.
3. 1.2.1994-12.11.1999, Assoc. Prof. of Physics, EMU, G. Mağusa, N. Cyprus, Turkey.
4. 13.11.1999-31.8.2000, Professor of Physics, EMU, G. Mağusa, Mersin 10, Turkey.
5. 1.9.2000-2005 , Professor of Physics ,King Fahed University of Petroleum and Minerals ( KFUPM )/ Hail Community College (HCC), Dept. of Science , Hail, Saudi Arabia.
- 6) 2005-2010 , Professor of Physics , University of Hail (UOH ), Dept. of Physics.
- 7) 2010- Continue , Professor of Pysics , An-Najah National University,Nablus ,Palestine .

**LANGUAGES:**

1. Arabic (Native Language)
2. English (Language of Education and Teaching)
3. Turkish

**MEMBERSHIP:**

A member in The American Physical Society (APS) , since 1993-continue

**REFERENCES:**

1. Professor Dr. Mustafa Halilsoy, Physics Department, EMU, G. Mağusa, Mersin 10, Turkey. (Fax :0090 392 365 1604 )
2. Professor Dr. Mehmet Tomak, Physics Department, METU, 06531, Ankara, Turkey. [E-mail: [tomak@metu.edu.tr](mailto:tomak@metu.edu.tr)]
3. Associate Professor Dr. Eser Aydıroğlu, Physics Department, EMU, G. Mağusa, Mersin 10, Turkey. [E-mail: [eser.aydiroglu@emu.edu.tr](mailto:eser.aydiroglu@emu.edu.tr)]
4. Professor Dr. Nasser Hamdan ,Physics Department , American University of Sharqa , UAE [ E-mail : [nhamdan@aus.ac.ae](mailto:nhamdan@aus.ac.ae) ]

