

CURRICULUM VITAE

Distinguished Professor Dr. Mohammed M. Shabat

Position Title: Professor of Theoretical Physics and Applied Mathematics

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Date of Birth: 26 May 1960

Sex: Male

Websites: <http://site.iugaza.edu.ps/shabat/>, www.ico-optics.org/ico_jan07.html, <http://www.oe.uni-duisburg-essen.de/persons/shabat/index-eng.asp>, <http://www.ico-optics.org/Goldenbook.html>
http://www.webmedcentral.com/advisory/advisory_member_details/3030

Awards and Prizes:

1. ICPSR, ISSESCO Prize in Science and Technology, Islamic Educational, Scientific and Cultural Organization (ISESCO), 2010, <http://www.isesco.org.ma/english/prizes/sc/Technology%202010.php>, <http://www.isesco.org.ma/english/news/news.php?id=1046>.
2. ICO Galileo Galilei Award 2006, <http://www.ico-optics.org/awards.html>.
3. Shoman Prize for the Arab Youth Scientist, www.shoman.org, Jordan 1995.
4. The Distinguished Scholar Award, the Arab Fund Fellowship Program, <http://www.arabfund.org/Felship-e.HTM>, Kuwait, 2007
5. The Alexander von Humboldt Foundation Fellowship, www.avh.de, Germany, 1998-2007.
6. Laureate of the IBC's (International Biographical Centre), Leading Educators of the World, <http://www.internationalbiographicalcentre.com/>, Cambridge, U.K, 2005.
7. Scientific Research Award for Natural and Engineering, Islamic University of Gaza, Gaza Strip, 2005.

Education & Qualifications

1978 GCSE in Science, Beit -Hanuan Secondary School, Gaza

1984 B.Sc. in Physics (Very Good with honours degree), Al-Azhar University (Cairo, Egypt)

1990 PhD in Computational and Theoretical Physics, Electromagnetic Waves (Optical Science), Salford University, Manchester, (U.K) , www.salford.ac.uk

Professional Experience:

2011- Present Distinguished Professor of Physics, Islamic University, Gaza, Palestine, www.iugaza.edu.ps,

2008- 2011 Professor of Physics, Islamic university, Gaza, Palestine, www.iugaza.edu.ps,

2006-2008 Visiting Professor, Max Planck Institute for the Physics of Complex Systems, Nöthnitzer Straße 38, 01187 Dresden, Germany, www.mpiipks-dresden.mpg.de

2000 - 2006 Professor of physics, Physics Department, Islamic University of Gaza (IUG), Gaza, Palestine, www.iugaza.edu.ps

1998-1999 Visiting Professor, Institute of Opto-electronics ZHO, Faculty of Electronic and Electrical Engineering, Gerhard Mercator University, Lother Strasse 55, 47057 Duisburg, Germany, <http://www.oe.uni-duisburg-essen.de/persons/shabat/index-eng.asp>

1996- 2000 Associate Professor at Physics Department, Islamic University, Gaza, Gaza Strip

1992-1995 Assistant Professor, Physics Department, Islamic University, Gaza, Gaza Strip

Jan.1992-Sept.1992 Research Fellow at Department of Electrical Engineering and Electronics, University of Manchester Institute of Science and Technology, UMIST, U.K, www.umist.ac.uk

1989-1991 Research Fellow at Centre of Electronic Materials, University of Manchester Institute of Science and Technology, UMIST, U.K and Visiting Fellow at Applied Optics Group, Salford University, U.K, www.salford.ac.uk.

1985-1985 Teacher of Mathematics and Physics, Gaza, Palestine

Consultations Services:

- 1- Commissioner of the Accreditation and Quality Commission, Ministry of Higher Education, Palestine, 2011-present
- 2- International expert, ENPI Project Team leader, Euro-Mediterranean University (EMUNI), 2010
- 3- Survey of Science, Innovation, & Technology at Palestinian Higher Education Institutions & Research Centres", Applied Research Institute Jerusalem, Ministry of Higher Education& UNESCO, Palestinian Authority, 2009
- 4- Commissioner of the Accreditation and Quality Commission, Ministry of Higher Education, Palestine, 2001-2005
- 5- Ministry of Planning and International Co-operation, (MOPIC), Science and Technology Planning Unit, Palestine, (Scientific Research Project), Current status on R&D Programs of Research Centres, 1996-1998.
- 6- Consultant to Chairman, Palestinian Energy Authority, 1999-2003.
- 7- A member of the Palestinian National Committee of Ministry for Higher Education for Science, Technology and Research, (White and Green Papers), Palestine
- 8- The Palestinian Scientific Centre for Energy Research (As foundation member) 1998

Academic Activities:

1. Member, Management Board, The Euro-Mediterranean University (EMUNI University), Slovenia, Elected 2013
2. Member, The Senate, The Euro-Mediterranean University (EMUNI University), Slovenia, Elected 2013
3. Vice Chairman, The Senate, the Board of Trustee, University of Palestine, Gaza, Gaza Strip, Palestine, 2014-
4. Member of the Mediterranean Institute of Fundamental Physics, <http://www.mifp.eu/>, Rome, Italy, 2013
5. Member of the Search Commission for the Post of President, The Euro-Mediterranean University (EMUNI University), Slovenia, 2013
6. Member, Habilitation Commission, The Euro-Mediterranean University (EMUNI University), Slovenia, Elected 2013
7. Referee to the Academic Promotion, King Abdulaziz University, Jeddah, Saudi Arabia.
8. Referee to the Academic Promotion, Bagdad University, Iraq.
9. Member of the Selection Committee for the ICO Galileo Galilei Award, 2008-2011.
10. Member of the Selection Committee for the Shoman Prize for the Arab Youth Scientist, 2006.
11. Commissioner of the Accreditation and Quality Commission, Ministry of Higher Education, Palestine, 2001-2006
12. Chairperson of the session of the Computational Electromagnetic at The 9th International Symposium on Microwave and Optical Technology (ISMOT-2003) Ostrava, Czech Republic, 11-15 August, 2003
13. Referee of the World Scientific and Engineering Academy and Society, U.S.A.
14. Member of the Promoting Committee of the Al-Aqsa University, 2001-2004, Palestine.
15. Member of the Steering Committee of World Renewable Energy Congress and World Renewable Energy Networks, U.K
16. An active member of Scientific Committees for establishing new programs at IUG (Master program in Mathematics, Master program in physics, Master program in Electrical Engineering, BSc. Programs in Computer Science, Environmental Sciences, and Optometry).
17. Committee member of many university councils as the scientific research, editorial boards of the Islamic journals, examination committee etc
18. The significant and sustained contributions to the development of undergraduate physics and electrical engineering laboratories and undergraduate education
19. Help the university by connecting the e-mail services and Internet
20. Initiated a National Research Group among the Professors, postgraduate students and researchers at Palestinian Universities (Islamic University of Gaza, Al-azhar University, and Al-Aqsa University) in Gaza Strip, Palestine
21. Referee to the international journals:
 1. Sensors and Actuators
 2. International Journal of modern Physics B

3. Journal of Modern Physics
4. Analytical Chemistry
5. IEEE Journal of Quantum Electronics
6. Optics Communications
7. Optical and Quantum Electronics
8. Indian Journal of Science and Technology
9. Islamic University Journal
10. Sensors Journal
11. Journal of Optics
12. Journal of Optics and Photonics
13. International Journal of Theoretical and Mathematical Physics
14. Advancement in Science and Technology Research

22. Reviewer of the International Journals and Conferences

1. Microelectronics and Solid State Electronics.
2. The International Journal of Optoelectronic Engineering
3. The International Journal of Theoretical and Mathematical Physics
4. International Journal of Electromagnetic and Applications
5. The International Conference on Technological Advances in Electrical, Electronics and Computer Engineering (TAAECE2013), Konya, Turkey on May 9-11, 2013.
6. 2014 Global Conference on Polymer and Composite Materials (PCM 2014), May 27-29, Ningbo, China.
7. Journal of Energy and Power Engineering ISSN 1934-8975, USA.
8. Special Track on Optical Engineering and Photonic Technology: OEPT 2014 in the context of The 7th International Multi-Conference on Engineering and Technological Innovation: IMETI 2014, July 15 - 18, 2014 – Orlando, Florida, USA

Career Interests:

Nonlinear optics, Optoelectronics, Photonic Crystals, Photovoltaic Solar Cells, waveguides, Electronics and Communications, Optical fibre communications, Optical sensors, Quantum Computing, Electricity and Magnetism, Electromagnetic waves, Metamaterials, Environmental Physics, Resources Management, Peaceful Applications of Nuclear Physics, Water desalination, Renewable energy, Nanotechnology, History of Science, Education, and Cognitive Education.

Members of Editorial Board

1. American Journal of Nanoscience and Nanotechnology, 2013-present
2. American Journal of Optics and Photonics, 2013- present.
3. Journal of the Association of Arab Universities for Basic and Applied Sciences, College of Science, University of Bahrain
4. Optics
5. Islamic University Journal, 1992 – present.
6. IEEE Transactions on Magnetic, 1996-1997
7. IUG Journal of Natural and Engineering studies (IUGNES), Islamic University of Gaza, Gaza Strip, Palestine

Teaching Experience (for BSc degree):

Computational Physics, Quantum mechanics, Classical mechanics, Mathematical Physics, Numerical Analysis, Laser & Advanced optics, Applied mathematics, Quantum electronics, Optical fibre, Opto-electronics, FORTRAN, Statistical physics, Spectral Domain Technique, Finite element method, Electrodynamics and General Physics, Space Weather.

Teaching Experience (MSc degree):

Numerical Techniques, Computational Physics, Mathematical physics, Quantum physics, Modern physics, Applied Mathematics for Electrical Engineering Students, Statistical Physics, Space communications, Optical Communications, Photonic Crystals and Metamaterials and Space Weather

Leadership Experience:

2013- 2015 Vice President for Research & Graduate Studies, Islamic University of Gaza, Gaza, Palestine
 2009 - 2103 Vice president for Academic Affairs, Islamic University of Gaza, Gaza, Palestine
 2001- 2005 Vice president for Administrative Affairs, Islamic university, Gaza, Palestine
 1999- 2001 Deputy Dean, Faculty of Science, Islamic University of Gaza, Gaza, Gaza Strip, Palestine
 1993 - 1997 Dean of Faculty of Science, Islamic University of Gaza, Gaza, Gaza Strip, Palestine
 Jan.1993 - Sept.1993 Assistant, Vice President for Academic Affairs, the Islamic University, Gaza, Palestine
 May - Dec. 1992 Director of Public Relations, the Islamic University, Gaza, Palestine

Membership:

1. President, Alexander von Humboldt-Fellow Club, Gaza, Gaza Strip, Palestine, 2013- present
2. Member, WebmedCentral Advisory Board, Webmed Limited, UK, 2011,
http://www.webmedcentral.com/about_us
3. Senior Member of the Institute of Electrical and Electronics Engineers, IEEE, www.ieee.org, (U.S.A)
4. Member of the Optical Society of America, www.osa.org
5. Senior Member of the IEEE Magnetic Society (U.S.A)
6. Fellow of the Academy of Sciences for the Developing World (TWAS), Elected 2004, www.twas.org
7. Fellow of the Academy of Sciences for the Developing World ,(TWAS), TWAS Arab Regional Office (TWAS-ARO) <http://www.bibalex.org/twasaro/members/list.htm>
8. Member of Palestinian delegation to the 44th meeting of the International Atomic Energy Agency (IAEA), Vienna, Austria, September 2000, where I was a Scientific Advisor to the Chairman of the Palestinian Energy Authority.
9. Senior Member of the IEEE Microwave Theory and Techniques Society (U.S.A), www.ieee.org
10. Senior Member of the IEEE Laser & Electro-Optics Society (U.S.A)
11. Senior Member of the Palestinian Society of Mathematical Sciences, (Palestine)
12. Senior Member of the Palestinian Physical Society, (Palestine)
13. Member of New York Academy of Sciences, (U.S.A)
14. Fellow of the Palestinian Academy of Sciences, (Palestine)
15. Senior Member of the Abdus Salam International Centre for Theoretical Physics, Italy, www.ictp.it
16. Alumni, Salford University, Manchester, U.K
17. Alumni, Duisburg-Essen University, Germany
18. Alumni, DAAD, The German Academic Exchange Service (DAAD), Jerusalem, West Bank, Palestine
19. The World Association for al-Azhar Graduates, Cairo, Egypt.

Served/Serving on Technical Program Committee of the following conferences:

1. Member, Organizing Committee, The International Seminar on Applied Physics, Optoelectronics and Photonics (APOP 2016), May 28-29, 2016, Shanghai, China
2. Member, International Conference Committee , The ICCP 2016: 18th International Conference on Computational Physics, May 16-17, 2016, Paris, France
3. International Conference committee, ICCP 2016 : 18th International Conference on Computational Physics, Mar 24-25, 2016, Madrid, Spain
 International Conference committee, ICCP 2016 : 18th International Conference on Computational Physics, Apr 25-26, 2016, Boston, USA
4. Reviewer, 2016 Spring International Conference on Material Sciences and Technology (MST-S), Suzhou China, April 17-19, 2016
5. Member, Organizing Committee , 2016 International Conference on Physics and Physics Education (ICPHY2016)
6. Member, Organizing Committee , 2016 International Conference on Nanotechnology and Materials Science (NANOMS2016), Xi'an, China, Jul. 23-24, 2016
7. Member, Technical Committee, The International Symposium on Photonics and Optoelectronics (SOPO 2016), August 26 to 28, 2016 in Xi'an, China.

8. Member, Technical Committee, The 2nd Int'l Conference on Polymer Materials Science (PMS 2016), January 14 to 16, 2016, Bangkok, Thailand.
9. Member, International Program committee, International Conference *on Sensors Engineering and Electronics Instrumental Advancess, in conjunction with: 1st International Workshop on Recent Advances on Electrical, Sensors and Transducers Equipements*, 21-22 November 2015, Dubai, UAE.
10. Member, Technical Committee, Mediterranean Conference on Information& Communication Technologies 2015, Saidia, 5-7 May 2015
11. Member, Technical Committee, The International Symposium on Photonics and Optoelectronics (SOPO 2015), Shanghai, 22-24 August 2015
12. The 2nd Laser and Optoelectronics Conference (LOC 2015) will be held from November 18 to 20, 2015 in Suzhou, China
13. Member, Technical Committee, The International Arab Conference on Quality Assurance in Higher Education (IACQA'2014), Zarqa University, Jordan, 1-4 April 2014
14. Member, International Scientific Committee, International Conference / Humboldt Kolleg, Building International Networks for Enhancement of Research in Jordan, Amman, Jordan April 3 – 5, 2014.
15. Member, International Advisory Board, 2014 International Conference on Electrical and Electronics Engineering (ICEEE 2014), Antalya, Turkey, April 21-23, 2014
16. Member of the Scientific Committee, the Fifth International Conference on Engineering and Sustainability (ICES5), Islamic University of Gaza, in Gaza City, Palestine, 4-5 November 2014
17. Member of Conference Committee, ICPO 2014 : International Conference on Photonics and Optoelectronics, Madrid, Spain, 27-29 March 2014
18. Member of Conference Committee, ICMON 2014: International Conference on Microelectronics, Optoelectronics, and Nanoelectronics, Oslo, Norway, 22-23 July 2014
19. Member of Conference Committee, ICMON 2014: International Conference on Microelectronics, Optoelectronics, and Nanoelectronics, Stockholm, Sweden, 15-16 July 2014
20. Member of the Scientific Committee, the Fourth Palestinian Conference on Modern Trends in Mathematics and Physics, PCMTMP-IV, Al-Quds University in Abu Dies, Jerusalem, Palestine, 11-13 August 2014
21. Member of the Programme Committee, The 4th EMUNI Conference on Higher Education and Research, EMUNI University, Brdo pri Kranju, Slovenia, 21-22 November 2013
22. Member of Conference Committee, ICMON 2013: International Conference on Microelectronics, Optoelectronics, and Nanoelectronics, Bali, Indonesia, 30-31 October 2013
23. Member of the International Scientific committee, 12th International Conference on Education and Training in Optics and Photonics, Faculty of Sciences of the University of Porto, Portugal, July 23 - 26, 2013
24. Member, Technical Editors, International Conference on Electronics and Opto-electronics Science (ICEOS 2013), Istanbul,Turkey, March 15-16, 2013.
25. Member of Steering Committee, The Mediterranean Green Energy Forum 2013 (MGEF-13), Fes, Morroco, 16 - 21 June 2013, <http://seb.sustainedenergy.org/papers.php>
26. Member, National Advisory Committee, the Third Palestinian Conference on Modern Trends in Mathematics and Physics, PCMTMP-III, 16-18 July 2012, the Palestine Polytechnic University in Hebron, Palestine.
27. The International Arab Conference on Quality Assurance in Higher Education (IACQA'2012), Gulf University, Bahrain, April 4th-5th, 2012
28. Member, International Committee, International Topical Meeting on Information Photonics IP2011, <http://www.uop.ca/communications/ip2011>, Ottawa, Canada, 2011
29. Member, International Committee, The XIIth Education and Training in Optics and Photonics Conference, (ETOP 2011), Tunisia, 8-11 July 2011, http://www.sto-tn.org/conference_program.php
30. Member, Scientific committee, 2nd International Conference In Laser Applications, Institute of Laser, Sudan University of Science & Technology, 2010-12-07

Courses, Lectures, Seminars, Conferences and Workshops:

1. Alexander von Humboldt Foundation in Palestine, Present and Outlook, Gaza, Gaza Strip, Palestine, 22th December 2015

2. Info-Day for HORIZON 2020, Islamic University of Gaza, Gaza, Gaza Strip, Palestine, 10th November 2015
3. 15th International Symposium on Microwave and Optical Technology 2015, Dresden, Germany, June 29 - July 1, 2015
4. A Seminar on Metamaterials-silicon waveguide structure for solar cell energy applications, Institute of Energy Research and Physical Technologies (IEPT) at the Clausthal Technical University (TUC), 19 June 2015
5. The TWAS's 25th General Meeting, Muscat, Oman, 26 to 29 October 2014
6. Training Workshop on "University- Industry Cooperation Schemes and Trends ", Amman-Jordan, 13 – 14 November 2014
7. International Conference on Sustainable Development Solutions for the Mediterranean Region, University of Siena, Siena, Italy, 3-5 July 2013
8. Palestinian-Malaysian Forum for the Higher Education, Islamic University of Gaza, Gaza Strip, Palestine, 24 June 2013
9. Study Visit, STEP Project, University of Bologna-Alma Studiorum, Italy, 28-30 May 2013
10. 2nd International Conference on Electronic and Opto-electronics Science, (ICEOS 2013), Istanbul, March 2013
11. Kick-off meeting, STEP – Strengthening Universities – Enterprise linkages in Palestine (STEP), Amman Journal, 20-21 December 2012
12. Chairperson, The International Conference of Higher Education in the Arab World: Future Horizons, Islamic University of Gaza, Gaza, Palestine, 15-19 January 2012
13. TWAS-ARO 8th Annual Meeting, "The Role of Science, Engineering and Technology in Achieving Sustainable Human Development in the Arab Region" Bibliotheca Alexandrina, Egypt, 30-31 December 2012
14. International Conference on Electromagnetic in Advanced Applications, ICEAA, Cape Town, South Africa, 2- 7 September 2012
15. AvH Workshop on "Advanced Solutions in Terahertz Technology, Guest House of J.W.Goethe University, Haus Bergkranz, Austria, 13-16 July 2012
16. International Seminar and Workshop on Quantum Matter from the Nano-to the Macroscale, Max Planck Institute for the Physics of Complex Systems, Dresden, Germany, 29 June -7 July 2012
17. Annual meetings for Alexander von Humboldt Foundation, Round Table Discussion, Berlin, 18-21 June 2012
18. 4th International Interdisciplinary Chaos Symposium on "Chaos and Complex Systems, Antalya, Turkey, 29 April-2 May 2012
19. Lecture on Metamaterial waveguide sensors, Warsaw University, Warsaw, Poland, 9 May 2012.
20. Lecture on Higher Education & Research in Palestine, Present and Outlook, Warsaw University, Warsaw, Poland, 9 May 2012
21. Higher Education, Research and Sociophysics in Palestine, Technical University of Warsaw, 10 May 2012
22. The TETIS 2011 Conference, Towards Education and Technological approaches to Implement Sustainability, The Role of Universities on Better Life Indicators, Lisbon, Portugal, 24 November 2011
23. 4th General Assembly of the Euro-Mediterranean University, Lisbon, Portugal, 25 November 2011
24. The Academy of Sciences for the Developing World, (TWAS's) 22nd General Meeting, Trieste, Italy, 21 to 23 November 2011
25. EFQM(European Foundation for Quality Management)Excellence model for Higher Education, www.efqm.org, Islamic University of Gaza, Gaza, Palestine, February 2010
26. Enculturation of Quality in Academia, Research and innovation toward Prosperity of Ummah", Kuala Lumpur, Malaysia, 19-21 October 2010
27. Strategic Planning, and Management, Islamic University of Gaza, Gaza, Palestine, July 2010
28. Change management &Building Organizational Culture Skills, Islamic University of Gaza, Gaza, Palestine, December 2009

- 29.** ICO Topical Meeting 2007 on Optics and Laser Applications in Medicine and Environmental Monitoring for Sustainable Development, Cape Coast, Ghana, 19-24 November 2007
- 30.** The PEACE Program, International Conference on Research Development in Palestinian Universities UNESCO, Paris, 4-5 November 2007
- 31.** 18th TWAS General Meeting, Third world The Academy of Sciences for the Developing Countries, Trieste, Italy, 13-14 November 2007
- 32.** International Conference on Functional Materials, Crimea, Ukraine, October 1-6, 2007
- 33.** Alumni round table discussion, Alexander Von Humboldt, Bonn, Germany, 23 – 25 August 2007
- 34.** Attosecond Physics International Workshop and Seminar, Max Planck Institute for the Physics of Complex Systems, Dresden, Germany, August 01 - 05, 2007
- 35.** XI International Conference on Physics and Technology of Thin Films (ICPTTF-XI), Ivano-Frankivsk, Ukraine, 7 - 12 May 2007.
- 36.** Lecture on Thermal, stress and strain effects on nonlinear waveguide sensors, Vasyl Stefanyk' Prekarpathian University, Ivano-Frankivsk, Ukraine, 11 May 2007
- 37.** The SPIE European Symposium on Optics and Optoelectronics, Congress Centre, Prague, Czech Republic, 16-19 April 2007
- 38.** Nonlinear Physics in Periodic Structures and Metamaterials, International seminar and workshop, Max Planck Institute for the Physics of Complex Systems, Dresden, Germany, March 19 - 30, 2007
- 39.** The First optETH Winter School on Optical Sciences, ETH Zurich, Switzerland, 25 February – 2 March 2007
- 40.** 1st International conference in Laser Science and Engineering and its Applications, Khartoum- Republic of Sudan, 22- 26/1/2007
- 41.** International Days on Ibn_Al_Haythem, organized by the Tunisian Association of "Young's in Science", the Tunisian Optical Society, Tunisia, 26 - 28 December 2006
- 42.** Nonlinear Dynamics of Acoustic Modes in Finite Lattices: Localization, Equipartition, Transport, Max Planck Institute for the Physics of Complex Systems, Dresden, Germany, December 06 - 08, 2006
- 43.** Dynamics and Relaxation in Complex Quantum and Classical Systems and Nanostructures, Seminar and Workshop:, Max Planck Institute for the Physics of Complex Systems, Dresden, Germany, July 24 - October 06, 2006
- 44.** Symposium on Opto- and Microelectronic Devices and Circuits, The Fourth Joint Symposium on Opto- and Circuits, SODC 2006, Duisburg, Germany, 2 - 8 September 2006
- 45.** 7th International Conference on Optical Technologies, Optical Sensors and Measuring Techniques, Exhibition Centre Nuremberg Germany, Proceedings of OPTO Conference, 183-178, 30 May - 1 June 2006
- 46.** Association of Arab Universities, Arab Council for Graduate studies and Scientific Research, Cairo University, Egypt, 27-29 June 2004
- 47.** Workshop on novel states and phase transitions in highly correlated matter, International Centre for Theoretical Physics, ICTP, Trieste, Italy, 12 -23 July 2004
- 48.** Workshop on Theoretical Plasma Physics, International Centre for Theoretical Physics, ICTP, Trieste, Italy, 5 -16 July 2004
- 49.** The International Association of Universities Meeting, Sao Paulo, Brazil, 23-29 July 2004
- 50.** The High Education in Latin America Seminar in Sao Paulo, 25-31 July 2004
- 51.** 3rd International workshop on Laser Physics, Hamburg, Germany, 25-29 August 2003
- 52.** The International Symposium on Microwave and Optical Technology, Ostrava, Czech Republic, August 11- 15, 2003
- 53.** The Third World Academy of Sciences, TWAS 8th General Conference & 13th General Meeting, TWNSO 7th General Assembly New Delhi, India, 19-23 the October, 2002
- 54.** Asian Regional IAP Seminar on the Generation of Experimental Materials and Learning Modules for Science Education, New Delhi, 24-25th October, 2002
- 55.** High-Level Conference on Science and Technology To Group 77, Dubai, Arab United of Emirates, 27-30th October, 2002

- 56.** The 2nd International Conference on the Physics and Application of Spin-Related Phenomena in Semiconductors (PASPS 2002), Würzburg University, 23-27 July, 2002
- 57.** Minisymposium on correlation in Mesoscopic systems, International Centre for Theoretical Physics, ICTP, Italy 2-4 August 2000.
- 58.** The First International Conference on Mathematical Sciences, Al-Ain, United Arab Emirates, 21-24 November 1999
- 59.** The Foundation Meeting of the Society of The Deans of The Arab Universities, Bahrain University, Bahrain, 29-30 Nov.1999
- 60.** Embedment of Recent Telematics Technology in the teaching of University physics, Suez Canal University, Egypt, 1-5 November, 1998
- 61.** Alexander von Humboldt, AvH Fellows meeting, Leipzig, Germany, 2-5 October, 1998
- 62.** 5th International workshop on Integrated Non-linear Microwave and Millimeterwave Circuits, IMMC98, Duisburg, Germany, 1-2 October 1998.
- 63.** Winter college on optics, International Centre for Theoretical Physics, ICTP, Trieste, Italy, 4-26 February 1998
- 64.** Third Symposium on the Recent Developments in Computational Condensed Matter Physics, Irbid, Jordan, 16-18 November 1997
- 65.** Workshop on Condensed Matter Physics, International Centre for Theoretical Physics, ICTP, Trieste, Italy, 20 July- 10 August, 1997
- 66.** Workshop on Condensed Matter Physics, International Centre for Theoretical Physics, ICTP, Trieste, Italy, 2-23 August 1996
- 67.** II International Workshops on Non-linear Optics and Applications, Miedzyydroje, Poland, 7-10 September 1994
- 68.** A seminar on non-linear magneto static surface waves, Rhur University, Germany, 15 August 1994
- 69.** IUG First symposium on physics, Islamic University of Gaza, 28 May 1994, (Chairman)
- 70.** Workshop on Nonlinear Interactions in Magnetic and Magneto optic Materials', University of California, Country Side Inn, Costa Mesa, U.S.A, 12-14 December 1993
- 71.** First Symposium on the recent developments in computational condensed matter physics', Irbid, Jordan, 16-18 November 1992
- 72.** Teaching Methods Course for New Lecturers, University of Manchester, 3-27 Sept.1991
- 73.** Microelectronics Materials and Devices and Technology, University of Manchester Institute of Science and Technology, UMIST, U.K, 1990
- 74.** The International School of Materials Science and Technology, Erice, Sicily, Italy, 1-15 July 1989

Grants:

- 1.** Overseas Research Student Scheme Award (ORS, UK, 1986-1989)
- 2.** Arab Student International Aid (USA), 1985-1988
- 3.** Arab-British Chamber Foundation, U.K, 1989
- 4.** The British Council Visit Grant to UMIST, England, 1993
- 5.** AMIDEAST Grant to visit University of California, Irvine, U.S.A, 1993
- 6.** DAAD Grant Visit Study to Germany, Ruhr University, Bochum, 1994.
- 7.** French Consulate Study Visit Grant to France, LEMO, Grenoble, 1995
- 8.** Royal Society Grant visit to Salford University, 1997
- 9.** International Atomic Energy Agency (IAEA), www.iaea.org, scientific visit, Italy, 1998.
- 10.** Associate membership award, International Centre of Theoretical Physics, 1997-2002
- 11.** Alexander Von Humboldt Fellowship, www.avh.de, Germany, 1998-1999.
- 12.** International Centre for Theoretical physics, www.ictp.it, Italy, study visit, 2000.
- 13.** DAAD Grant Visit Study to Germany, Duisburg University, www.uni-due.de, 2002.
- 14.** Alexander Von Humboldt Fellowship, Duisburg-Essen University, Germany, 2003
- 15.** Alexander Von Humboldt Fellowship, Duisburg-Essen University, Germany, 2004
- 16.** Alexander Von Humboldt Fellowship, Duisburg-Essen University, Germany, 2006
- 17.** Alexander Von Humboldt Fellowship, Duisburg-Essen University, Germany, 2007

- 18.**Max Planck Institute for Physics of Complex Systems, Germany, 2009
- 19.**Study visit to Technical University of Warsaw, Poland, May 2012
- 20.**Alexander Von Humboldt Fellowship, Goethe University Frankfurt, Germany, June-July 2012
- 21.**International Centre for Theoretical physics, www.ictp.it, Italy, study visit, 2013
- 22.**Alexander Von Humboldt Fellowship, Institute of Energy Research and Physical Technologies, Clausthal University of Technology, Germany, June-August 2015

Computer Skills:

- Fluent use of personal computers and Networking
- Very good knowledge of FORTRAN 77 and 90
- Very good knowledge of Numerical Analysis

Research Interests:

Electromagnetic waves, Numerical Techniques and computational physics, Optical fibre, Optical sensors, Quantum waveguides, Metamaterials, Magneto static surface waves in superconductors, Theoretical research in condensed matter physics, Linear and non-linear microwave excitations in multilayered structures consisting of dielectrics, ferrite and semiconductors, Magnetoplasmons waves, Optical wave-guides in periodic media, Non-linear optics, Molecular Electronics, Molecular LB films, Microwave Integrated Circuits, Finite Elements and finite Difference Methods in Condensed Matter Physics, physics education, and socio physics, and history of science.

Funded Research:

- 1.** HORIZON 2020, MIDDLE EAST RESEARCH AND INNOVATION DIALOGUE, 2014-2015
- 2.** TEMPUS IV (2012-2014): Project Number (530626-TEMPUS-1-2012-1-PS-TEMPUS-JPHES) - Project title: Strengthening University-Enterprise linkages in Palestine with a project leader, An-Najah National University, Palestine.
- 3.** M.M.Shabat, Measurements of Air Pollution at Gaza strip, International Centre for Theoretical Physics, 1997
- 4.** M.M.Shabat, USEE Programme (A pilot programme for upgrading science and engineering education in Arab Universities through computer multimedia technologies), UNESCO, Cairo, Egypt, 1998
- 5.** M.M.Shabat, Optical wave guides sensors, Union of Arab Universities, 2005
- 6.** M.M.Shabat, Modelling of optical waveguide sensor, Alexander von Humboldt, www.avh.de, Bonn, Germany, 2003
- 7.** Al Maqdisi programme (2012-2014): Project title: Proposed waveguide sensors containing metamaterials with a project French partner, Université de Lille 1, France
- 8.** Development of Optimum Methods for Raising the efficiency of PV solar modules, Islamic University of Gaza, Gaza, Palestine, 2013-2015
- 9.** Development of Optimum Methods for Raising the efficiency of PV solar modules, Union of Arab Universities, 2014

Graduate Students Supervised:

- 1.** N.Barakat, M.Sc thesis, Numerical techniques for non-linear lossy wave guides, College of Education, Gaza, in co-operation with Ain Shams University, Egypt,1999
- 2.** Y.Madi, M.Sc thesis, Numerical techniques for moving wave guides, Mathematics Department, College of Education, Gaza, in co-operation with Ain Shams University, Egypt, 2000.
- 3.** H.El-Sheikh, M.Sc thesis, Mathematics Department, Finite elements techniques for lossy wave guides, Islamic University of Gaza, 1999-2000
- 4.** Hisham Fayad, PhD thesis, Quantum wave guides, College of Education, Gaza, in co-operation with Ain Shams University, Egypt. Y.Madi, PhD thesis, College of Girls, Gaza, in co-operation with Ain Shams University, Egypt, 2000
- 5.** S. Taya, M.Sc. thesis, Scattering 2000 in Quantum wave guides, physics department, Islamic university, Gaza, 2000

6. N.M.Barakat, PhD thesis, Application of Finite Difference approach and time domain method to lossy non-linear wave-guides, College of Education, Gaza, in co-operation with Ain Shams University, Egypt, 1999-2000
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