Curriculum Vitae: Hussein Shanak Full Professor in Physics

Permanent work address:

Department of Physics Faculty of Applied Sciences Palestine Technical University Kadoorie Tul-karm Palestine Private address:

Jenin-Tanak Palestine

Tel: 04 2459944 Mobile: 059 8250606



Personal Information:

h.shanak@ptuk.edu.ps h shanak@yahoo.com

- Name: Hussein Shanak
- Place of Birth: Ta`nak / Jenin
- Date of Birth: 18/8/1970
- Marital Status: Married, with four Kids.
- Nationality: Palestinian, German

Education:

- Ph.D. in Solid State Condensed Matter Physics (Thin Film Nanotechnology), Saarland University, Saarbruecken/Germany, 2005. *Title of the Ph. D. Thesis:* "Optimization of Transition Metal Oxide Films of WO₃ and V₂O₅ for Electrochromic and Gasochromic Applications in Smart Windows"
- M.Sc. in Physics, University of Jordan, Amman, Jordan, 1999 Title of the M. Sc. Thesis:
 "Normal and Enhanced Ion Exchange Processes of Ag and TL in Glass"

"Normal and Enhanced Ion-Exchange Processes of Ag and Tl in Glass"

- B.Sc. in Physics, An-Najah National University, Nablus, Palestine, 1994
- Secondary School Certificate (Tawjihi) Silet Al-Hartheyyeh Secondary School, 1988

Academic Honors:

- Scholarship for a Ph.D. Program from the German Academic Exchange Service (DAAD, Deutscher Akademischer Austausch Dienst), April 2001 June 2005.
- Invited by DAAD-Foundation to participate in the Meetings for Nobel Prize Winners with Young Scientists in Lindau/Germany on Lake Constance "18th Meeting of Nobel Laureates in Physics" June 27- July 2, 2004

Sml

P a g e 1 | 10

Professional and Teaching Experience:

- Acting President, Palestine Technical University Kadoorie, from 03.01.2023 until present.
- Vice President for Academic Affairs, Palestine Technical University Kadoorie, from **01.09.2022** until **present**.
- **Full Professor** at the Department of Physics, Palestine Technical University- Kadoorie, Tulkarm, Palestine, since **24.09.2022**.
- Dean of Graduate Studies, Palestine Technical University-Kadoorie, from **1.09.2018** until **31.08.2022**.
- Dean of Student Affairs, Palestine Technical University-Kadoorie, from **01.09.2016** until **31.08.2018**.
- Dean of the Faculty of Sciences and Arts, Palestine Technical University-Kadoorie, from **01.09.2014** until **31.08.2016**.
- Associate Professor at the Department of Physics, Palestine Technical University Kadoorie, Tulkarm Palestine, from 01.09.2015 until 23.09.2022.
- Senior Scientist (Visiting Prof.) at the Physics Department, Workgroup of Nanostructural Research and Nanotechnology, Saarland University, from 1.9.2012 until 31.8.2014.

The tasks included (i) Administration (as a coordinator) of the EU-funded project "Magnetism Network of the Greater Region- GRMN", which belongs to Saarland University, University of Lorraine and Technical University Kaiserslautern. The activities of the GRMN project included technology transfer, developing of exhibits, organizing workshops, invention of innovative experimental tools and education in the field of magnetism; (ii) research in the field of scanning tunneling microscopy on graphene; (iii) teaching of students ranging from practical courses to instruction and supervision of PhD students during their theses.

- Chair of Physics department, Palestine Technical University- Kadoorie, from **01.08**. Assistant Professor at the Department of Physics, Palestine Technical University Kadoorie, Tulkarm, Palestine, from **01.09.2009** until **31.08.2015**.
- **Post-Doc** at the Institute of Experimental Condensed Matter Physics (Prof. Thomas Heinzel), Duesseldorf University, Germany, from **01.09.2007** to **31.08.2009**. Mainly, I supervised Master students in different fields. One field is the misoscopic transport and the quantum hall effect in graphene (one graphite layer); another field is the production of polypyrrol thin films to be used as gas-, pH- and bio-sensors. A third field is the production of WO₃ nanorods to be investigated as gas sensors. Additionally, I participated in the teaching activities at the department.
- **Post-Doc** at the Department of Experimental Physics (Prof. Rolf Pelster), Saarland University, Saarbreucken, Germany, **01. 09. 2005 31.08.2007.** The field of the Post

Smil

doc was performing crystallographic investigations (Phase and Texture Analysis) to study the influence of drawing on the crystal structure and orientation of polyamide6 films for industrial applications. The project was in cooperation with BASF Company. During my Post-Doc experience, I was involved in teaching of different labs.

- Lecturer at Al-Quds Open University, Jenin, Palestine, 1999- 2000
- Teaching and Research Assistant, Physics Department, Faculty of Science, University of Jordan, Amman, Jordan, 1996-1998.

Teaching Experience:

I taught the following courses for several times: Physics 1, Physics 2, Physics 3, Modern Physics, Material Sciences, Quantum Mechanics I, Quantum Mechanics II, Research Methodology, Optical Physics, Solid State Physics and Semiconductor Devices, Physics for Medical Students, Physics Labs 1, Physics Labs 2, Intermediate Physics Labs, Physics Labs for Medicine, Physics Labs for Biology, Quantum Mechanics for Master Program.

Awards:

- **SESAME** Project: Title: XAFS investigations of ZnO nanoparticles and ZnO nanoparticles mixed with conjugated (P3HT) or (PVK) polymers. Proposal number: 20190128, October, 2020
- German government (**DAAD**, **D**eutscher Akademischer Austausch **D**ienst) research fellowship, Saarland University, Saarbruecken, Germany, June 2017
- A German government (**DAAD**) research fellowship, Duesseldorf University, Germany, June 2011.
- A German government (**DAAD**) research fellowship, Saarland University, Saarbruecken, Germany, July 2011.
- Scholarship for a Ph.D. Program from the German Academic Exchange Service (DAAD), April 2001 June 2005.
- Invited by DAAD-Foundation to participate in the Meetings for Nobel Prize Winners with Young Scientists in Lindau/Germany on Lake Constance "18th Meeting of Nobel Laureates in Physics" June 27- July 2, 2004.

Experimental Experience:

I am well-experienced with: **RBS** (Rutherford Backscattering Spectrometry), **NRA** (Nuclear Reaction Analysis), **PVD** (Physical Vapor Deposition: Sputtering Techniques), Spin-Coating, **AFM** (Atomic Force Microscope), **XRD** (X-ray Diffraction): Phase and Texture Analysis, **SEM** (Scanning Electron Microscope), **EDX**, (Energy Dispersive X-Ray Analysis), Optical and Electrical Measurements, **IR** (Infrared), **STM** (Scanning Tunneling Microscopy), Optical and Electron Beam Lithography, and Graphene Production. I have a good computer literacy.

Smil

Page 3 | 10

Conferences:

- Chair of Scientific Committee for the "First International Palestinian Conference on Peaceful Usage of Atomic Energy", held at PTUK, Tulkarm, Palestine, December 19-20, 2017.
- Sixth Palestinian Conference on Modern Trends in Mathematics and Physics, Palestine Technical University -Kadoorie, Tulkarm, Palestine, August 5-8, **2018**
- Fifth Palestinian Conference on Modern Trends in Mathematics and Physics, Arab American University, Jenin, Palestine, July 31- August 2, **2016**
- The Second International Palestinian Conference on Nanotechnology and Material Sciences, Nablus, Palestine, March 23-25, **2016**.
- Conference of the Deutsche Physikalische Gesellschaft **DPG**, Dresden, Germany, March 30 April 04, **2014**.
- Conference of the Deutsche Physikalische Gesellschaft **DPG**, Regensburg, Germany, March 10-15, **2013**.
- Third Palestinian Conference on Modern Trends in Mathematics and Physics, Palestine Polytechnic University, Hebron, Palestine, July 16-18, **2012.**
- The First International Palestinian Conference on Nanotechnology for Advanced Material devices, An-Najah University, Palestine Technical University-Kadoorie and Illinois Urbana-Champaign University, Nablus & Tulkarm, Palestine, March 26-28, 2012.
- Conference of the Engineering of Functional Interfaces EnFI 2010, July 15-16, Philipps University, Marburg, Germany, **2010**.
- Conference of the Deutsche Physikalische Gesellschaft **DPG**, February 25-29, **2008**, Berlin, Germany.
- Conference of the Deutsche Physikalische Gesellschaft **DPG**, March 26-31, **2007**, Regensburg, Germany.
- 6th International Meeting on Electrochromism, IME6, August 29- September 2, **2004**, Brno University of Technology, Brno, Czech Republic.
- 5th International Conference on Coatings on Glass, ICCG5, July 4-8, **2004**, Saarbruecken, Germany.

Workshops:

- Research Quality Systems: Proposal Development, Research Administration and Dissemination Implemented by the University of Notre Dame, Institute of Global Development, for the creation of Research Hub in Palestine, October 20-22, **2018**
- Research Ethics, Implemented by the University of Notre Dame, Institute of Global Development, for the Creation of Research Hub in Palestine, October 12-14, **2018**
- Workshop of the Palestinian German Science Bridge, Julich, Germany, 2018.

Shill

- Workshop "Business Meets Research" in Central for Productivity and Technology Production, Saarbreucken, Germany, September 24, **2013**.
- Workshop on Magnetism and Technology Transfer, Jean Lamour Institute, University of Lorraine, Nancy, France, September 16-19, **2013**; (Organizer)
- Workshop "Business Meets Research" in Central for Productivity and Technology Production,- Lux-Innovation- Luxemburg, Luxemburg, May 7-8, 2013
- Workshop on Technology Transfer between Basic Research and Small and Medium Enterprises "Labor Talks", Saarland university, Saarbreucken, Germany, March 20, 2013; (Organizer)
- Participation in the first PFDP (The Palestinian Faculty Development Program) National Roundtable Seminar titled, "History and Development of World Universities and Higher Education Systems", September 23-24, **2011**, Ramallah; organized by AMIDEAST.
- Research in Europe: How to Finance Research Projects and How to Establish Research Groups, December 05, **2007**, University of Cologne, Cologne, Germany.

Languages:

- *Arabic:* mother tongue.
- *English:* very good in written and spoken.
- *German:* very good in written and spoken.

Publications:

In Journals:

- Farman, M., Akgul, A., <u>Shanak, H</u>., Asad, J., Ahmad, A., Computer Virus Fractional Order Model with Effects of Internal and External Storage Media., *European Journal of Pure and Applied Mathematics*, 15(3), pp. 897–915, **2022.**
- Qureshi, Z.A., Bilal, S., Shah, I.A., Akgul, A., Jarrar, R., <u>Shanak, H.</u>, Asad, J., Computational Analysis of the Morphological Aspects of Triadic Hybridized Magnetic Nanoparticles Suspended in Liquid Streamed in Coaxially Swirled Disks, *Nanomaterials*, 12(4), 671, 2022.
- Salmi, M., Afif, B., Akgul, A., Jarrar, R., <u>Shanak, H.,</u> Menni, Y., Ahmad, H., Asad, J., Turbulent flows around rectangular and triangular turbulators in baffled channels a computational analysis, *Thermal Science*, 26(Special Issue 1), pp. S191–S199, 2022.
- Mahdi, K., Bekrentchir, K., Hussein, A.K., <u>Shanak, H</u>., Asad, J., Akkurt, N., Menni, Y., Using obstacle perforation, reconfiguration, and inclination techniques to enhance the dynamic and thermal structure of a top-entry channel, Thermal Science, 26 (Special Issue 1), pp. S475–S484, 2022.
- Rath, B., Nayak, B., Pravanjan Mallick, P., Sahoo, R., Erturk, V., Wannan, R., Jarrar, R., <u>Shanak, H.</u>, Asad, J., A revisit on the characteristics of Yao-Cheng non-linear oscillator, *Journal of Low Frequency Noise, Vibration and Active Control,* Vol. 0(0) 1–5, 2022, DOI: 10.1177/14613484221130149 journals.sagepub.com/home/lfn.

Sml

P a g e 5 | 10

- Rddy, K.V., Reddy, G.V.R., Akgül, A., Jarrar, R., <u>Shanak, H.</u>, Asad, J., Numerical solution of MHD Casson fluid flow with variable properties across an inclined porous stretching sheet, *AIMS Mathematics*, 2022, 7(12), pp. 20524–20542, **2022**.
- Tahir, M., Naz, A., Imran, M., Waqas, H., Akgül, A., <u>Shanak, H</u>, Jarrar, R and Jihad Asad, J., Activation energy impact on unsteady Bio-convection nanomaterial flow over porous surface, *AIMS Mathematics*, 7(11), pp. 19822–19845, **2022.**
- J. Asad, P.Mallick, M.E.Samei, B.Rath, P. Mohapatra, <u>H. Shanak</u>, R. Jarrar; Reply to comment on "Asymmetric variation of a finite mass harmonic like oscillator" *Results in Physics*, *Vol. 32, 105148, January* **2022.**
- Biswanath Rath, Jihad Asad, <u>Hussein Shanak</u>, Rabab Jarrar and Mohammed K.A.Kabbar, Investigation of the Infinite Discrete Levels from Finite discrete Levels in Position Dependent Mass Quantum Systems, *European Journal of Pure and Applied Mathematics*, Vol 15(1),238, 2022.
- <u>H. Shanak</u>, R. Jarrar, H. Khalilia, J. Asad, Numerical Aspicts of the Kinenatics Behaviour of Coupled Pendulum, *Journal of Engineering Science and Technology*, Vol. 16, No. 5, 4016 4026, **2021.**
- <u>H. Shanak</u>, H. Khalilia, R. Jarrar, J. Asad, Numerical study of coupled oscillator system using the classical Euler-Lagrange equations, *Mechanics and Mechanical Engineering*; 25 (1):1–5, https://doi.org/10.2478/mme-2021-0001, **2021**.
- J. Asad, R. Jarrar, H. Khalilia, S. Mallak, <u>H. Shanak</u>, The Mechanics of the Vibrating Triangle System, Bulletin of the Transilvania University of Brasov, Series III: Mathematics and Computer Science, Vol. 1(63), No. 1 - 2021, 27-38, 2021 https://doi.org/10.31926/but.mif.2021.1.63.1.3
- V.S. Erturk, J. Asad, R. Jarrar, <u>H. Shanak</u>, H. khalilia, The Kinematics Behaviour of Coupled Pendulum using Differential Transformation Method, *Results in Physics*, *Vol* 26, 104325, DOI: <u>https://doi.org/10.1016/j.rinp.2021.104325</u>, 2021.
- B. Rath, J. Asad, P. Mallick, M.Samei , <u>H. Shanak</u>, R. Jarrar , Position Dependent Finite Symmetric mass Harmonic Like Oscillator: Classical and Quantum Mechanical Study, *Open Physics*, *19: 266–276, 2021*, Manuscript DOI: 10.1515/phys-2021-0024. Published by De Gruyter, **2021**.
- <u>H. Shanak</u>, R. Jarrar, H. Khalilia, J. Asad, Some Features of Douple Pendulum System Numerical and Simulation Sstudy, *Journal of theoretical and applied mechanics*, Vol 51, Issue 1, pp 076-091, **2021**.
- <u>H. Shanak</u>, R. Jarrar, J. Asad, The Two- Point Capacitance for an Infinite Face Centered Cubic Network , *Journal of Electrical Systems*, Vol 16, No 4, pp 491-497, 2020.
- J. Asad, P. Mallick, M.Samei, B. Rath,, <u>H. Shanak</u>, R. Jarrar, Asymmetric variation of a finite mass harmonic like oscillator, *Results in Physics*, Vol. 19, pp 10335, **2020**.
- <u>H. Shanak</u>, O. Florea, N. Alshaikh, J. Asad, Mathematical and numerical Approach for Telegrapher Equation, *Acta Technica Napocensis Series: Applied Mathematics, Mechanics, and Engineering*, Vol. 63, Issue II, pp 143-148, **2020**

Smil

- <u>H. Shanak</u>, E. Jarrad, J. Asad, Experimental and theoretical Investigation of Perturbed Infinite Network of Identical Resistors, *Journal of Electrical Systems*, Vol 15, No 4, pp 514-525, **2019**.
- A. Abu-As"ad, <u>H. Shanak</u>, J. Asad, Classical Features of the Motion of A Heavy Bead Sliding on A Rotating Wire, *Journal of theoretical and applied mechanics*, Vol 49, Issue 3, pp 224-232, 2019.
- <u>H. Shanak</u>, A. Naumann, J. Lion, Goetz and R Pelster, Orientation of Nanocrystallites and Anisotropy of Uniaxially Drawn □-Polyamide 6 Films: XRD, FTIR and Microwave Measurements, *DIO:* 10.1007/s10853-014-8515-6, Journal of materials Sciences, Vol. 49, No 23, pp 8074-8083, 2014.
- <u>H. Shanak</u>, Investigation of the gasochromic behavior for Nickel Oxide Then films using UV-VIS-NIR Spectroscopy, *Surface Review and Letters, Vol. 21, No. 3, 1450043*, **2014**.
- <u>H. Shanak, Influence of aging, poisoning and residual charges on the gasochromic behavior of WO₃ thin films, *Palestine Technical University Research Journal*, 1 (1), 2934, **2013.**</u>
- M. El Achhab, <u>H. Shanak</u>, and K. Schierbaum, NO₂ sensing properties of WO₃ nanorods grown on mica, *Physica Status Solidi* (*a*) 208, No. 6, 1229–1234, **2011.**
- S. Barnoss, <u>H. Shanak</u>, C. Bof Bufon and T. Heinzel, Piezoresistance in chemically synthesized polypyrrole thin films, *Sensors and Actoaturs A*, Vol. 145, No.1, **2009**
- <u>H. Shanak</u>, K.H. Ehses, P. Leibenguth, W. Goez and R. Pelster, X-Ray Diffraction investigations of alpha-Polyamide 6: Structural change and Orientation upon Uni- and Biaxial Drawing, *Journal of Material Sciences*, Vol. 44, No. 2, 655-663, **2009**.
- <u>H. Shanak</u>, H. Schmitt, Fast coloration in sputtered gasochromic tungsten oxide films, *Physica Status Solidi (a)* 203, No.15, 3748-3753, **2006**.
- J. Nowoczin, <u>H. Shanak</u>, K.-H. Ehses, C. Ziebert, H. Schmitt, Gasochromic Tungsten Oxide-based Film Structure, *Phys. Status. Solidi* (*a*) 202, No. 6, 1073-1080, **2005.**
- <u>H. Shanak</u>, H. Schmitt, J. Nowoczin, K.-H. Ehses, Effect of O₂ Partial Pressure and Thickness on Gasochromic Coloration of V₂O₅ Films, *Journal of Material Science* Vol. 40, No. 13, 3467-3474, **2005**.
- <u>H. Shanak</u>, H. Schmitt, J. Nowoczin, C. Ziebert, Effect of Pt-Catalyst on Gasochromic WO₃ Films: Optical, Electrical and AFM Investigations, *Solid State Ionics* 171/1-2, 99106, **2004**.
- G. Saffarini, H. Schmitt, <u>H. Shanak</u>, J. Nowoczin, J. Müller, Optical band gap in relation to the average coordination number in Ge-S-Bi thin films, Physica Status Solidi (b) 239, 251-254, **2003**.

Smil

In conferences:

- K. Awawdeh, <u>H. Shanak</u>, Indoor Radon-222 Concentration Levels Measurements in Buildings at Palestine Technical University-Kadoorei, Sixth Palestinian Conference on Modern trends in Mathematics and Physics, held at PTUK, Tulkarm, Palestine, 5-8 August **2018**.
- <u>H. Shanak</u>, Graphene as a new dimension for carbon based electronic, Fifth Palestinian conference on modern trends in Mathematics and Physics, 31July-2 August, Arab American University, Jenin, Palestine, **2016**.
- <u>H. Shanak</u>, et al, XRD investigations of a-polyamide 6 films: orientation of nanocrystallites and structural changes upon uni- and biaxial drawing, The second international Palestinian conference on nanotechnology material sciences, Najah university, Nablus, Palestine, **2016**
- <u>H. Shanak</u>, A. Holtsch, T. Euwens and U. Hartmann, Impact of the substrate on the electronic properties of Graphene, Conference of the Deutsche Physikalische Gesellschaft DPG, 30 March- 4 April, **2014**, Dresden, Germany.
- A. Holtsch, Euwens, <u>H. Shnank</u> and U. Hartmann, Scanning tunneling spectroscopy of moire patterns on Graphene/Rh(111), Conference of the Deutsche Physikalische Gesellschaft DPG, 30 March- 4 April, **2014**, Dresden, Germany.
- T. Euwens, A. Holtsch, <u>H. Shnank</u> and U. Hartmann, Varied moire patterns of graphene/Rh (111) measured by scanning tunneling microscopy, Conference of the Deutsche Physikalische Gesellschaft DPG, 30 March- 4 April, **2014**, Dresden, Germany.
- A. Holtsch, <u>H. Shanak</u>, U. Hartmann, Electronic transport of metallic thin films and islands on graphene with scanning tunneling spectroscopy, Conference of the Deutsche Physikalische Gesellschaft DPG, 10-15 March **2013**, Regensburg, Germany.
- <u>H. Shanak</u>, Electrical transport in Graphene layers, Third Palestinian conference on modern trends in Mathematics and Physics, 16-18 July, Palestine polytechnic university, Hebron, Palestine, **2012**.
- <u>H. Shanak</u>, A. Hueten, R. Schloesser and T. Heinzel, Magnetotransport in graphene, The first international Palestinian conference on nanotechnology for advance material devices, 26-28 march, Organized by Najah, Kadoorie and Illinois Urbana-Champaign universities, Nablus & Tulkarm, Palestine, **2012**.
- M. El Achhab, <u>H. Shanak</u>, and K. Schierbaum, NO₂ sensing properties of WO₃ nanorods grown on mica, Conference of the Engineering of Functional Interfaces EnFI 2010, July 15&16, Philipps University, Marburg, Germany, **2010**.
- A. Naumann, <u>H. Shanak</u>, K.-H. Ehses, J. Lion, W. Goetz and R. Pelster, Microstructure and anisotropic properties of Polyamide 6 films Conference of the Deutsche Physikalische Gesellschaft DPG, Berlin, Germany, 25-29 Feb. 2008.

Smil

P a g e 8 | 10

- <u>H. Shanak,</u> K. -H. Ehses, J. Lion, P. Leibenguth and R. Pelster, Orientation and structural changes upon uni- and Biaxial drawing of polyamide 6, Conference of the Deutsche Physikalische Geselschaft DPG, Regensburg, Germany, 26-31 March 2007.
- <u>H. Shanak</u>, H. Schmitt, J. Nowoczin, K.-H. Ehses, DC-Sputtered V₂O₅ Thin Films: Effect of O₂ Partial Pressure and Thickness on Optical and Electrical Properties: Proc. of the 5th International Conference on Coating on Glass, ICCG5, 513-520, **2004.**

Under preparation:

- A. Holtsch, Euwens, **H. Shnank** and U. Hartmann, Scanning tunneling spectroscopy of moire patterns on Graphene/Rh(111) (to be submitted)
- <u>**H. Shanak**</u>, H. Schmitt, K.-H. Ehses, Structural evolution during the hydrogenation of sputtered V₂O₅ films (to be submitted).
- <u>**H. Shanak,**</u> M. El Achhab, T. Heinzel, Influence of humidity on the sensing properties if polypyrrole thin films (to be submitted).
- A. Huetten, <u>H. Shanak</u>, and T. Heinzel, Weak Localization in Graphene (to be submitted).

<u>Memberships:</u>

Member in the German Physical Society -Deutsche Physikalische Gesellschaft DPG since 2003 until present.

Miscellaneous:

- University Council 2011-2012 and 2014 until present.
- Deans Council from 2014 until present
- Academic committee from 2014 until present.
- Promotion committee 2022 until present.
- Chair of the council of graduate studies at PTUK from 2018 until 2022.
- Member of the national committee for the management of the synchrotron Project (SESAME), since 2017 until present.
- Member of the academic quality committee at PTUK
- Chair of the scholarship committee at PTUK
- Member of the committee of international academic cooperation at PTUK.
- Member of the steering committee for the German-Palestinian Scientific Bridge.
- Member of the steering committee for the Canadian (Québec)-Palestinian Scientific Bridge.
- Preparation for a proposal for an M.Sc. program in Physics, Palestine Technical University Kadoorie; which was approved in 2020/2021.

Smil

P a g e 9 | 10

- Participation in preparing proposals for several Master and Bachelor programs, Palestine Technical University- Kadoorie; which were approved.
- Member of the organizing committee of the sixth Palestinian conference on Modern Trends in Mathematics and Physics, held at PTUK, Tulkarm, Palestine, August 5-8 2018.
- Member of the scientific committee of the sixth Palestinian conference on Modern Trends in Mathematics and Physics, held at PTUK, Tulkarm, Palestine, August 5-8, 2018.
- Chair of the scientific committee for the "First International Palestinian Conference on Peaceful Usage of Atomic Energy", held at PTUK, Tulkarm Palestine, December 19-20, 2017.
- Member of the elected administrative board of the workers union at Palestine Technical University-Kadoorie since 2019 until present.
- Chairman of the student council for elections committee at Palestine Technical University-Kadoorie, 2017/2018 and 2018/2019.
- Member in the organizing committee for the Fifth Palestinian Conference on Modern Trends in Mathematics and Physics, AAUP, Jenin July 31- August 2, 2016
- Member of the organizing committee of the the second international Palestinian conference on nanotechnology and material sciences, Nablus, Palestine March 23-25, 2016.
- Coordinator of the fourth Palestinian forum for teaching and learning mathematics, held on May 10, 2015, PTUK
- Chair of organizing committee for the " Palestinian Conference on Innovation in Teaching and Learning : from Policy to Practice, at PTUK, Tulkarm, Palestine, December 14-16, 2014
- Member for the organizing committee for a workshop on magnetism and technology transfer, Jean Lamour Institute, University of Lorraine, Nancy, France, September 16-19, 2013.
- Organizer for a workshop on technology transfer between basic research and small and medium enterprises " Labor Talks", Saarland University, Saarbreucken, Germany, March 20, 2013.
- Member of the organizing committee of the first Palestinian forum for teaching and learning mathematics, held on May 2012, PTUK.
- Member of the local organizing committee of the 'First Palestinian International Conference of Nanotechnology for Advanced Material & Devices', (Organizations: University of Illinois at Urbana-Champaign, An-Najah National University & Palestine Technical University-Kadoorie), , Nablus and Tulkarm, Palestine, March 26-28, 2012
- Faculty Council 2009-2012 and 2014-2016.
- An external examiner for several master students at different Palestinian universities.
- Reviewer for many articles in several respected local and international journals.
- Supervisor for the master thesis for several students.

Smil