



CURRICULUM VITAE



Name: Zeid Naim Qamhieh
Date of birth: June 22, 1960;
Place of birth: Nablus – West Bank, Palestine
Profession: Assistant Professor of Physics
Specialization: Atomic, Molecular and Optical Physics
Applications: Resonance Ionization Spectroscopy (RIS), Accelerator Physics, Laser Physics, Material Science and Environmental Applications.
Fields of interest: Spectroscopy, Lasers and its Applications, Noise Pollution, Environmental applications and Synchrotron Radiation
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Universities attended (the Years attended, the Degree earned, and the Major Field)

An-Najah National University	1978 - 1982	B.Sc.	Physics
Southern Illinois Univ. at Carbondale (U.S.A)	1984 - 1986	M.Sc.	Physics
Katholieke University of Leuven (Belgium)	1989 - 1994	Ph.D	Physics

Dissertation or Thesis Titles (Including the name of the advisor):

M.Sc. ⇒ Title: **FREQUENCY DEPENDENT KINETICS OF THE CW CO₂ LASER INDUCED REACTION OF CFHCL₂**

Advisor: Prof. Robert N. Zitter.(USA)

Ph.D. ⇒ Title: **RESONANT LASER PHOTO-IONIZATION IN A GAS CELL AND THE DEVELOPMENT OF AN ELEMENT-SELECTIVE ON-LINE ION SOURCE.**

Advisors: Prof. Roger E. Silverans (Belgium)

and

Prof. Piet Van Duppen (Belgium)

Annex Thesis

⇒ Title: **THE ATOMIC FORCE MICROSCOPE CAN BE USED FOR MEASURING THE POTENTIAL DROP ACCROSS A PN-JUNCTION WITH SUBMICROMETER PRECISION**

Advisor: Prof. Louis Hellemans (Belgium)

Working Experience (Years, Place and Profession):

2008 - now	Phys.Dept/An-Najah N. University Nablus - Palestine	Assistant Professor
2006 - 2008	Ministry of Education and Higher Education Ramallah - Palestine	Assistant Deputy Minister
1994 – 2006	Phys. Dept./An-Najah N. University Nablus – Palestine	Assistant Professor
1986 – 1989	Phys. Dept./An-Najah N. University Nablus – Palestine	Physics Instructor
1982 – 1984	Phys.Dept/An-Najah N. University Nablus - Palestine	Teaching Assistant

University Courses Taught:

- General Physics courses 1 & 2 for science and engineering students.
- Physics for education students.
- Physics for IT students.
- Physics for Medicine (Medical Physics)
- Modern Physics.
- Optics.
- Principles of Lasers.
- Spectroscopy.
- Physics and the Society.
- Scientific Research.
- Development and delivery of the laboratory experiments of all undergraduate levels.
- Experimental Techniques in Physics. (Master course)

Conferences and Summer Schools Arrangments:

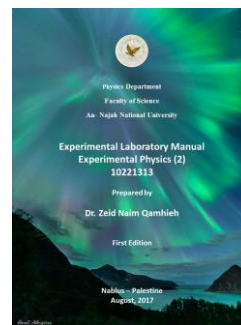
I was a member of the organizing committee of the following:

- 1) Titel: **The Palestinian Conference on Modern Trends in Mathematics and Physics II (PCMTMP II)**
Place: An-Najah National University
Nablus - Palestine
Dates: 2/8/2010 to 4/8/2010
- 2) Title: **Palestinian Advanced Physics School 2017**
Place: Birzeit University
Birzeit - Palestine
Dates: July 9 – 13, 2017

Preparing Laboratory Manuals:

- 1) Experimental Laboratory Manual - Experimental Physics (1),
2nd year (August 2017)

Prepared by **Dr. Zeid N. Qamhieh**



- 2) Experimental Laboratory Manual - Experimental Physics (2),
3rd year (August 2017)

Prepared by **Dr. Zeid N. Qamhieh**



Grants: 1. **STUDYING THE NOISE POLLUTION IN PALESTINE** supported by:

- Arab Union Universities (1996)
- An-Najah National University (1996-1997)

2. **Nd:Yag laser lab** supported by:

- Jaddah Islamic Bank (2002)
- An-Najah National University (2002)

Most recent conference participation:

- 1- The Fifth Palestinian Conference on Modern Trends in Mathematics and Physics, American University – Jenin, Palestine, July 31st - August 2nd, 2016.
- 2- Frontiers in Theoretical and Applied Physics (FTAPS 2017), American university of Sharjah, Sharjah – UAE, 22- 25 Feb. 2017.
- 3- The 2nd Palestinian Graduate Conference on Natural, Medical and Health Sciences and Humanities (SPIGCNMHSH 2017), An-Najah Natinoal University, Nablus, Palestine, April 20th, 2017.
- 4- Nablus Expatriates First Conference, An-Najah Natinal University, Nablus- Palestine, 24-25/7/2018.
- 5- The "Sixth Palestinian Conference on Modern Trends in Mathematics and Physics PCMTMP-VI", Palestinian Technical University – Kadoorei, Tulkarm – Palestine, 5-8/8/2018

References

- 1) Prof. Naser Qamhieh Mobile: 00971 505138210
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Scientific Activities and Scientific Visits: Place, dates, Topic, Host and Funding agency

Maracesh; Morocco	19/6/1995 - 9/7/1995	Work Shop about Renewable Energy, Supported by: MED-campus Program
Rome; Italy	17/9/1995 - 5/10/1995	Work Shop about Renewable Energy, Supported by: MED-campus Program
Johansberg Univ. Mainz; Germany	1/8/1997 – 20/9/1997	Ultra Trace Analysis by RIS Ionization Technique Host: Prof. Klaus Wendt Head of EXAKT group Supported by DAAD
GSI-Darmstadt; Germany	20/6/1999 – 20/8/1999	Ion Optical Calculations in Radio Frequency Ion Traps Using SIMION Software Host: Prof. H-J. Kluge Head of Atomic Physics Supported by GSI - Germany
GSI-Darmstadt; Germany	15/5/2000 – 15/8/2000	Ion Optical Calculations for SHIPTRAP Using SIMION Software Host: Prof. H-J. Kluge Head of Atomic Physics Supported by DAAD
GSI-Darmstadt; Germany	16/8/2003 – 10/9/2003	Ion Optical Calculations for SHIPTRAP and HITRAP Using SIMION Software Host: Prof. H-J. Kluge Head of Atomic Physics Supported by GSI - Germany
Johansberg Univ. Mainz; Germany	19/6/2004 – 15/8/2004	Ultra Trace Analysis by RIS Ionization Technique Host: Prof. Klaus Wendt Head of EXAKT group Supported by DAAD
Amman - Jordan	Dec., 6-9, 2005	4th SESAME Users' Meeting on Synchrotron Radiation Supported by UNISCO
Amman - Jordan	Nov. 17-19, 2007	6th SESAME Users' Meeting on Synchrotron Radiation Supported by UNISCO
Amman - Jordan	Nov. 7-9, 2012	10th SESAME Users' Meeting on Synchrotron Radiation Supported by UNISCO
Amman - Jordan	20-22 Nov, 2013	11th SESAME Users' Meeting on Synchrotron Radiation Supported by UNISCO
Johansberg Univ. Mainz; Germany	25/5/2014 – 21/7/2014	1) Ion optical calculations for LIST ion source 2) Determination of Rydberg states and the IP of Holmium by 3 step laser photoionization (using Ti-Sa Lasers) Host: Prof. Klaus Wendt, Head of Larissa group – Physics Department, Supported by Zamalah Program
Amman – Jordan Days Inn Hotel	26-27 Nov., 2014	12th SESAME Users' Meeting on Synchrotron Radiation Supported by UNISCO
Amman – Jordan Days Inn Hotel	25-26 Nov., 2015	13th SESAME Users' Meeting on Synchrotron Radiation Personal support
Amman – Jordan Days Inn Hotel	3-4 Dec., 2016	14th SESAME Users' Meeting on Synchrotron Radiation Personal support

Amman – Jordan Gerasa Hotel	18-19 Dec., 2017	15th SESAME Users' Meeting on Synchrotron Radiation Personal support
Amman – Jordan Harir Palace Hotel	15-16 Dec., 2018	16th SESAME Users' Meeting on Synchrotron Radiation Personal support

Supervising and Examining Master Thesis

1. “Noise Pollution in Factories in Nablus City”, by Mahmoud Mohammed Abdel-Ali, **supervised** by Prof. Issam R. Abdelraziq & **Dr. Zeid Qamhieh**, Physics Department, An-Najah N. University, April, 2001.
2. **External examiner** of “Analytical Study of Hazard Elements, Air Pollutants in the Area of Bethlehem and Hebron”, by Suhail M. Odeh, Supervised by Dr. R. Kitaneh & Dr. M. L. Abu-Taha, Physics Department, Al-Quds University, Abu Dees – Palestine, September, 2001.
3. **Internal examiner** of “FP-LAPW Calculations of the Structural Phase Transformations of ZnSe and ZnS under High Pressure”, by Sana’a Ahmed M. M. Ghanem, Supervised by Dr. Mohammed Anu-Jafar, An-Najah N. University, Nablus-Palestine, July, 2003.
4. “Effects of Occupational Noise Exposure on Blood Pressure, Pulse Rate and Hearing Threshold in Workers in Selected Plants in Jenin City”, **supervised** by Prof. Issam R. Abdelraziq & **Dr. Zeid Qamhieh**, Physics Department, An-Najah N. University, 2004.
5. **External examiner** of “Photopyroelectric Monitor of Olive Oil Quality and Olive Fruit Oil Content During the Ripeening Period”, by Yaser Ibrahim Al Sarahneh, Supervised by Dr. M. L. Abu Taha, Al-Quds University, Abu Dees, Palestine (2005).
6. “Effects of Noise Pollution on Arterial Blood Pressure and Heart Pulse Rate of School Children in Jenin City”, by Roba Mohammed Anis Saeed, **supervised** by **Dr. Zeid Qamhieh** & Prof. Issam R. Abdelraziq, Physics Department, An-Najah N. University, September 2010.
7. “The Effects of Noise Pollution on Arterial Blood Pressure and Pulse Rate of Workers in the Hospitals of Nablus City – Palestine”, by Rowaida Mahmoud Easa Sadeq, **supervised** by Prof. Issam Rashid Abdelraziq & **Dr. Zeid Qamhieh**, Physics Department, An-Najah N. University, January, 2011.
8. “The Effects of Noise Pollution on Arterial Blood Pressure and Pulse Rate of Doctors in their Dental Offices in Jenin City – Palestine”, by Majd Nathmi Sa’abnah, **supervised** by Prof. Issam R. Abdelraziq & **Dr. Zeid Qamhieh**, Physics Department, An-Najah N. University, June, 2011.

9. “Effects of Noise Pollution on Hearing Threshold, Blood Pressure and Oxygen Concentration in Blood of Workers in the Hospitals in Jenin City – Palestine”, by Ruba Fawzi Khaled Ahmad, **supervised** by Prof. Issam R. Abdelraziq & **Dr. Zeid Qamhieh**, Physics Department, An-Najah N. University, December, 2011.
10. “Health Effects of Occupational Noise Exposure in the Range (90 - 110) dB(A) Especially on Blood Oxygen Saturation of Workers in Selected Industrial Plants”, by Dana Nabeel Alsheikh Ibrahim, **supervised** by Prof. Issam R. Abdelraziq & **Dr. Zeid Qamhieh**, Physics Department, An-Najah N. University, May, 2012.
11. “The Exposure Effects of the Signals of Cell Phones on the Employees of Nablus and Jenin Municipalities”, by Omar Sary M. Abu Subha, **supervised** by Prof. Issam R. Abdelraziq & **Dr. Zeid Qamhieh**, Physics Department, An-Najah N. University, 2014.
12. “Studying the Retention of Multivalent Pollutants in Bentonite”, by Isra Sulyman Faiez Maraaba, **supervised** by **Dr. Zeid Qamhieh** & Dr. Khawla Qamhieh, Physics Departments at An-Najah N. University & Al-Quds University, respectively, 2014.
13. “Pentavalent Ions Sorption on Bentonite Clay”, by Sojoud Adnan Odeh, **supervised** by **Dr. Zeid Qamhieh** & Dr. Khawla Qamhieh, Physics Departments at An-Najah N. University & Al-Quds University, respectively, 2015.
14. “Hexavalent Ions Sorption on Bentonite Clay”, by Loay Manasrah, **supervised** by **Dr. Zeid Qamhieh** & Dr. Khawla Qamhieh, Physics Departments at An-Najah N. University & Al-Quds University, respectively, May 5th, 2018.

List of Publications

- 1) **Z. N. Qamhieh**, E. Vandeweert, R.E. Silverans, P. Van Duppen M. Huyse and L. Vermeeren, "Resonance Ionization in a Gas Cell: a Feasibility Study for a Laser Ion Source" Nucl. Instr. & Meth. **B70**, 131-136 (1992).
- 2) P. Van Duppen, P. Dendoven, M. Huyse, L. Vermeeren, **Z. N. Qamhieh**, R.E. Silverans and E. Vandeweert, "A laser Ion Source for On-Line Mass Separation", Hyperfine Interactions, **74**, 193-204 (1992).
- 3) L. Vermeeren, N. Bijnens, M. Huyse, Y. A. Kudryavtsev, P. Van Duppen, J. Wauters, **Z. N. Qamhieh**, P. Thoen, E. Vandeweert and R. E. Silverans, "An on-line ion source based on resonance photoionization in a gas cell", Physical Review Letters, **73**, 1935-1938 (1994).
- 4) E. Vandeweert, P. Thoen, **Z.N. Qamhieh**, P. Lievens and R.E. Silverans, "The electronic excitation of atoms in atomization processes studied by resonance ionization mass spectroscopy", Resonance ionization spectroscopy 1994, H. Jurgen Kluge, J. E. Parks, K. Wendt (eds.), American Institute of Physics (AIP) Conference Proceedings **329**, 91-94 (1995).
- 5) L. Vermeeren, N. Bijnens, M. Huyse, Y. A. Kudryavtsev, P. Van Duppen, J. Wauters, **Z. N. Qamhieh**, P. Thoen, E. Vandeweert and R. E. Silverans, "Element selective laser ion source for on-line mass separator", Resonance ionization spectroscopy 1994, H. Jurgen Kluge, J. E. Parks, K. Wendt (eds.), AIP Conference Proceedings **329**, 203-206 (1995).
- 6) T. Trenkler, J. Snauwaert, **Z. Qamhieh**, P. De Wolf, W. Vandervorst and L. Hellmans, "Local Potential Measurements in Silicon Devices Using Atomic Force Microscopy with Conductive Tip", 25th European Solid State Device Research Conference, The Hague, Netherlands, 25-27 Sept. (1995),.
- 7) T. Trenkler, J. Snauwaert, **Z. Qamhieh**, P. De Wolf, W. Vandervorst and L. Hellmans, "Local Potential Measurements in Silicon Devices Using Atomic Force Microscopy with Conductive Tip", Transactions of Nonferrous Metals Society of China 01(1995)
- 8) Abdel-Raziq Issam R., **Qamhieh Zeid N.**, Seh Mohammed, "Noise Measurements in the Community of Nablus in Palestine", Acustica - Acta Acustica **86**, 578-580 (2000).

- 9) **Qamhieh Z.**, Mohammed S., Abdel-Raziq I., "Measurements of Noise Pollution in the Community of Arraba in Palestine", *Acustica - Acta Acustica* **86** (2000).
- 10) G. Marx, D. Ackermann, J. Dilling, F. P. Hetsberger, S. Hoffmann, H.-J. Kluge, R. Mann, G. Munzenberg, **Z. Qamhieh**, W. Quint, D. Rodriguez, M. Schadel, J. Schonfelder, G. Sikler, C. Toader and C. Weber, "Status of the SHIPTRAP project: A capture and storage facility for heavy radionuclides from SHIP", GSI Scientific Report page 104, Darmstadt-Germany (2000).
- 11) G. Marx, D. Ackermann, J. Dilling, F. P. Hetsberger, S. Hoffmann, H.-J. Kluge, R. Mann, G. Munzenberg, **Z. Qamhieh**, W. Quint, D. Rodriguez, M. Schadel, J. Schonfelder, G. Sikler, C. Toader and C. Weber, O. Engels, D. Habs, P. Thierolf, H. Backe, A. Dretzke, W. Lauth, W. Ludolphs, M. Sewtz and the SHIPTRAP collaboration, "Status of the SHIPTRAP project: A capture and storage facility for heavy radionuclides from SHIP", *Hyperfine Interactions* **132**: 463 – 486 (2001).
- 12) Issam R. Abdel-Raziq, **Zeid N. Qamhieh** and Mahmoud M. Abdel-Ali, "Noise Pollution in Factories in Nablus City", *Acta Acustica united with Acustica*, **vol. 89**, 913 - 916 (2003).
- 13) R. M. Sadeq, **Z. N. Qamhieh** and I. R. Ashqer, "Effect of Noise Pollution on Arterial Blood Pressure and Heart Pulse Rate of Workers in the Hospitals of Nablus City – West Bank", *Journal of Medical Science*, **Vol. 13**, Issue 2, pages 136-140 (2013).
- 14) Omar Abu-Subha, **Z. N. Qamhieh**, Issam R. Abdel-Raziq, "The Exposure Effect of the Signals of Cell Phones on the Employees of Nablus and Jenin Municipalities", *Environmental Sciences* 08 (2014).
- 15) Majd. N. Sa'abnah, **Zaid. N. Qamhieh** and Issam R. Abdel-Raziq, "The Exposure Effect of the Signals of Cell Phones on the Employees of Nablus and Jenin Municipalities", *International Journal of Medical Informatics* (Impact Factor: 2.72), 3(1), 02 (2015).
- 17) N. Qamhieh, A. Najar, **Z. N. Qamhieh**, B. Abdel Aziz, I. Mansour and I. Alghoul, "Synthesis and characterization of a perovskite film for solar cells applications", *Optik* **Vol. 171**, pages 648-651, Oct. (2018).
- 18) I. Musa, **Z. Qamhieh**, S. Mahmoud, M. El-Shaer, A. Ayeshe and N. Qamhieh, "Investigation of optical and electrical properties of Cobalt-doped Ge-Sb-S thin films", *Results in Physics* **13** (2019)