

Osama Taqatqa
UOS Radiation Protection Officer
Mechanical and Nuclear Engineering Department

EDUCATION:

- **M.Sc in Physics, Jordan. January 2003.**
Special achievement: (Excellent).
- **B.Sc in Physics, Jordan. June 2000.**
Special achievement: (Very good).

CERTIFICATES:

-NEBOSH International Diploma in Occupational Health and Safety:

- Unit IA: International management of health and safety (candidate).
- Unit IB: International control of hazardous agents in the workplace (candidate).
- Unit IC: International workplace and work equipment safety (candidate).
- Unit ID: International application of health and safety theory and practice (Done).

-NEBOSH International General Certificate in Occupational Safety and Health (UK):

- Management of International Health and Safety certificate 02 February, 2016.
- Health and Safety Practical Application certificate 28 April, 2016.
- Controlling Workplace Hazards certificate 28 April, 2016.

-Certified Nuclear Security Professional (CNSP) 3 June 2017:

- The WINS Academy Foundation Module 27 November 2016.
- Certificate of Specialization, The WINS Academy Module for Scientists, Technicians and Engineers 3 June, 2017.

LICENSES:

- Radiation Safety Officer License in Nuclear Physics Lab, **January 2009.**
Radiation Officer License's Number: 14P (MS) (17)/M1/2009 (JNRC).
- Personal License for the usage of radiation sources in education and scientific research, **January 2009.**
Personal License's Number: 114(MS) (26)/M1/2009 (JNRC).

Awards:

- Distinguished Employee Award at the University of Sharjah for the year 2015/2016.

EMPLOYMENT :

Feb 2014-to date: UOS Radiation Safety Officer, Mechanical and Nuclear Engineering Department, University of Sharjah.

May2009- Jan2014: *Head of Calibration and Personal Monitoring Department* (Supervisor of TLD and Secondary Standards Dosimetry Lab (SSDL)), Jordan Atomic Energy Commission, Amman, Jordan.

Note: I worked in “Preliminary Environmental Radiation Monitoring Program” in the JRTR, in the field of collecting samples, and radiation survey around Jordanian research reactor.

2005-May2009: *Radiation Safety Officer and Lab Instructor*, University Of Jordan, Amman, Jordan.

I taught a Radiation lab course designed for Masters in Medical Physics students, in addition to the following laboratories: Mechanics, Electricity and Magnetism, Modern Physics, Optics, Advanced Experimental Physics.

2002-2003: *Research Assistant*, AL al-Bayt University, Mafraq, Jordan.

My research involved the use of Variable Angle Spectroscopic Ellipsometry (VASE).

2001-2002: *Teaching Assistant (Lab Instructor)*, AL al-Bayt University, Mafraq, Jordan

I taught Mechanics labs and Electricity and Magnetism labs at the department of physics.

MAIN RESEARCH INTERESTS :

- Occupational Safety and Health.
- Personal monitoring research, by using SSD lab to irradiate dosimeters by using different techniques of sources (Gamma, neutrons, and x-ray).
- Radiation Technology.
- Optical Data Storage Applications.
- Synchrotron Application (XAFS), Radiation Physics and Protection.
- Optical Properties of thin Films by VASE.
- Polymers, Electronics.

PUBLICATIONS :

- Walid A. Metwally, Osama A. Taqatqa, Mohammed M. Ballaith, Allan X. Chen and Melvin A. Piestrup, “**NEUTRON AND PHOTON DOSE MAPPING OF A DD NEUTRON GENERATOR**”, Radiation Protection Dosimetry (2017), pp. 1–6
- O.A. Taqatqa & H.A. Al Attar, “**Spectroscopic Ellipsometry investigation of Azo-Dye and Azo-dye Doped Polymer**”. European Physical Journal Of Applied Physics, **37**, 61-64, (2007), France.
- H.A. Al Attar & O.A. Taqatqa, ”**A New Highly Photorefractive Polymer Composite for Optical Data Storage Application**”, Journal Of Optics A: Pure and Applied Optics, **5**, (2003) S487-S492, UK.

Training Courses, and Workshops (Attached):

- **“Laboratory health and safety awareness”**, UoS, Sharjah (29 March-2April,2015).
- **“3rd National workshop on the implementation of comprehensive safeguards agreement and additional protocol”**, FANR & IAEA, Dubai (24-26 Nov, 2015).
- **" Medical Response to Radiation Emergencies at the Hospital Training Course "**, FANR & IAEA, Abu Dhabi (Dec 14-16, 2014).
- **" Medical Response to Radiation Emergencies at the Scene Training Course "**, FANR & IAEA, Abu Dhabi (Nov 9-11, 2014)
- **" 3rd WNU School on Radiation Technologies"**, World Nuclear University (Mar 7-20, 2014)
- **"Uses of Beam Accelerators"**, EAEA, Cairo (Sep 29 – Oct 4, 2012).
- **"Third LinkSCEEM Cross-sectional HPC Workshop"**, Cairo, Egypt (Nov 11-15, 2012).
- **"SESAME-JSPS-Sabanci University Synchrotron Radiation School"**, Antalya, Turkey, (Feb 28 – March 6, 2010).
- **"Regional Training Course on the Establishment of Quality Management Programmes Applicable to All Technical Services"**, the main topics of the training: Quality Management of Personal Monitoring and SSD labs. (RAS-9.053-001), Dhaka, Bangladesh (Dec 6 – 10, 2009).
- **"First International Workshop on Nuclear Science and its peaceful Applications"**, Cairo University, Cairo, Egypt (Mar 15 – 19, 2009).
- **“Radiation Protection Level 1”**, Royal Scientific Society, Amman - Jordan (Jan 15-29, 2009).
- **“SESAME-JSPS School and SESAME 7th Users Meeting (EXAFS spectroscopy)”**, Cairo University, Cairo, Egypt (Nov 17-22, 2008).
- **“Orphan Source Search and Secure Training”**, National Nuclear Security Administration, U.S. Department of Energy, Amman, Jordan (Aug 3-7, 2008)
- **“Medical Radiation Physics”** Atomic Energy Authority, Cairo, Egypt (June 1-12, 2008).
- **Local Organizing Committee, 6,8,9,10,11th SESAME Users' Meetings.**